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       Items
                Description
Set
                (DETOXIF? OR DEGRAD?) (50N) ORGANOPHOSPHOR? (100N) (ENZYM? OR -
          542
S1
             CATALY?)
S2
          300
               RD (unique items)
                S1 AND S S2 AND ESTERASE?
S3
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                S2 AND OPD
S4
            8
?t2/3/1-300
          (Item 1 from file: 156)
 2/3/1
           Subfile: TOXBIB-93-345090
02831496
  Stereoselectivity
                                   detoxication by organophosphorus acid
                    of
                          soman
anhydrases from Escherichia coli.
 Hoskin FC; Gallo BJ; Steeves DM; Walker JE
  Biology Department, Illinois Institute of Technology, Chicago 60616.
  Source:
           Chem Biol
                      Interact; VOL 87, ISS 1-3, 1993, P269-78 ISSN:
0009-2797
          Coden: CYV
 Language: ENGLISH
  Document Type: JOURNAL ARTICLE
           (Item 2 from file: 156)
 2/3/2
02827658
           Subfile: BIOSIS-93-25391
  Purification and preliminary characterization of permethrinase from a
pyrethroid-transforming strain of Bacillus cereus.
 MALONEY SE; MAULE A; SMITH A RW
       Biotechnol., Public Health Lab. Service, Centre Applied Microbiol.
Res., Porton Down, Salisbury, Wiltshire SP4 OJG.
  Source: APPL ENVIRON MICROBIOL; 59 (7). 1993. 2007-2013. Coden: AEMID
  Language: ENGLISH
 BIOSIS COPYRIGHT: BIOL ABS.
 2/3/3
           (Item 3 from file: 156)
02802683
           Subfile: FEDRIP-93-02702605
  EFFECT OF AGRICULTURAL CHEMICALS AND NATURAL TOXINS CONTAMINATING THE
FOOD OF DOMESTIC ANIMALS
 GILL SS; FUKUTO TR
  UNIVERSITY OF CALIFORNIA/ENTOMOLOGY, RIVERSIDE, CALIFORNIA 92521
  Source: FEDRIP DATABASE, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)
 Language: UNSPECIFIED
  Spon. Agency: U. S. DEPARTMENT OF AGRICULTURE/COOPERATIVE STATE RES SER
 Contract Number: AGRIC CA-R*-ENT-3744-AH
           (Item 4 from file: 156)
 2/3/4
02802611
           Subfile: FEDRIP-93-02702377
  ENZYMATIC DECONTAMINATION OF ORGANOPHOSPHORUS CHEMICAL AGENTS
 WILD JR
 TEXAS A&M UNIV/BIOCHEMISTRY & BIOPHYSICS, COLLEGE STATION, TEXAS 77843
  Source: FEDRIP DATABASE, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)
 Language: UNSPECIFIED
  Spon. Agency: U. S. DEPARTMENT OF AGRICULTURE/COOPERATIVE STATE RES SER
  Contract Number: AGRIC TEX06837
 2/3/5
           (Item 5 from file: 156)
02800926
          Subfile: NTIS-AD-A259 889-4
  Solid-State
                (31)P
                        Magic
                                Angle Spinning (MAS)
                                                        NMR Study of the
Partitioning and Reaction of Organophosphorus Esters Adsorbed on Synthetic
Resin Catalysts.
  Beaudry WT; Wagner GW; Ward JR
  Chemical Research, Development and Engineering Center, Aberdeen Proving
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Ground, MD. Source: Govt Reports Announcements & Index (GRA&I), Issue 10, 1993 Language: UNSPECIFIED Contract Number: Proj. 10161102A71A Order Info.: NTIS/AD-A259 889/4, 22p NTIS Prices: PC A03/MF A01 2/3/6 (Item 6 from file: 156) Subfile: NTIS-AD-A257 540-5 02777383 Assay for Monitoring the Kinetics of the JD6.5 Cholinesterase in Organophosphorus Acid Anhydrase Detoxification of Diisopropylfluorophosphate. Yeh HR; Cheng TC; DeFrank JJ Chemical Research, Development and Engineering Center, Aberdeen Proving Ground, MD. Source: Govt Reports Announcements & Index (GRA&I), Issue 06, 1993 Language: UNSPECIFIED Contract Number: Proj. 1C162622A553 Order Info.: NTIS/AD-A257 540/5, 17p NTIS Prices: PC A03/MF A01 (Item 7 from file: 156) 2/3/7 02752559 Subfile: NTIS-AD-A252 939-4 Evaluation of Kinetic Data to Discern Stereospecific Reactions of Toxic Organophosphorus Fluorides. Ward JR; Albizo JM Chemical Research, Development and Engineering Center, Aberdeen Proving Ground, MD. Source: Govt Reports Announcements & Index (GRA&I), Issue 21, 1992 Language: UNSPECIFIED Contract Number: Proj. 1C161102A71A Order Info.: NTIS/AD-A252 939/4, 14p NTIS Prices: PC A03/MF A01 (Item 8 from file: 156) 02700347 Subfile: TOXBIB-92-157770 Immune surveillance, organophosphorus exposure, and lymphomagenesis. Newcombe DS Department of Environmental Health Sciences, Johns Hopkins University School of Hygiene and Public Health, Baltimore, Maryland 21205. Source: Lancet; VOL 339, ISS 8792, 1992, P539-41 ISSN: 0023-7507 Coden: LOS Language: ENGLISH Document Type: JOURNAL ARTICLE 2/3/9 (Item 9 from file: 156) Subfile: TOXBIB-91-190080 02658361 Purification and characterization of carboxylesterases from rat lung. Gaustad R; Sletten K; Lovhaug D; Fonnum F Norwegian Defence Research Establishment, Division for Environmental Toxicology, Kjeller. Source: Biochem J; VOL 274 ( Pt 3), 1991, P693-7 ISSN: 0264-6021 Coden: 9YO Language: ENGLISH Document Type: JOURNAL ARTICLE 2/3/10 (Item 10 from file: 156) Subfile: TOXBIB-91-099240 02650181

Mechanism of action of organophosphorus and carbamate insecticides.

Department of Entomology, University of California, Riverside 92521.

Coden: EI0

0091-6765

Source: Environ Health Perspect; VOL 87, 1990, P245-54 (REF: 28) ISSN:

Language: ENGLISH

Document Type: JOURNAL ARTICLE; REVIEW; REVIEW, TUTORIAL

2/3/11 (Item 11 from file: 156)

02645928 Subfile: TOXBIB-91-054556

Hepatic subcellular localization of cresylbenzodioxaphosphorin oxide (CBDP)-sensitive soman binding sites.

Little JS; Maxwell DM; Fox-Talbot MK; Brecht K; Lenz DE

US Army Environmental Hygiene Agency, Aberdeen Proving Ground, MD 21010-5425.

Source: Biochem Pharmacol; VOL 40, ISS 8, 1990, P1733-7 ISSN: 0006-2952

Coden: 9Z4

Language: ENGLISH

Document Type: JOURNAL ARTICLE

2/3/12 (Item 12 from file: 156)

02572444 Subfile: BIOSIS-92-27802

Extractive derivatization of aqueous drugs using polymeric phase transfer catalysts: I. Sensitive analyses of dialkylphosphates as pentafluorobenzyl derivatives.

MIKI A; TSUCHIHASHI H; UEDA K; YAMASHITA M

Forensic Sci. Lab., Osaka Prefectural Police Headquarters, 3-1-16, Otemae, Chuo-ku, Osaka 540, Japan.

Source: JPN J TOXICOL ENVIRON HEALTH; 38 (2). 1992. 168-175. Coden: JJTHE

Language: JAPANESE

BIOSIS COPYRIGHT: BIOL ABS.

2/3/13 (Item 13 from file: 156) 02555054 Subfile: BIOSIS-92-10410

DETOXIFICATION OF ORGANOPHOSPHORUS PESTICIDES SOLUTIONS IMMOBILIZED ENZYME SYSTEM

HAVENS PL; RASE HF

Source: TEDDER, D. W. AND F. G. POHLAND (ED.). ACS (AMERICAN CHEMICAL SOCIETY) SYMPOSIUM SERIES, 468. EMERGING TECHNOLOGIES IN HAZARDOUS WASTE MANAGEMENT II; SYMPOSIUM, ATLANTIC CITY, NEW JERSEY, USA, JUNE 4-7, 1990. X+444P. AMERICAN CHÉMICAL SOCIETY: WASHINGTON, D.C., USA. ILLUS. ISBN 0-8412-2102-2.; 0 (0). 1991. 261-281. Coden: ACSMC

Language: ENGLISH

BIOSIS COPYRIGHT: BIOL ABS. RRM

2/3/14 (Item 14 from file: 156)

02553827 Subfile: BIOSIS-92-09183

Distribution and nature of the aquatic organophosphorus acid anhydrases: Enzymes for organophosphate detoxification.

LANDIS WG

Inst. Environmental Toxicol. Chem., Huxley Coll. Environmental Studies, Western Washington Univ., Bellingham, Wash. 98225.

Source: REV AQUAT SCI; 5 (3-4). 1991. 267-286. Coden: RAQSE

Language: ENGLISH

BIOSIS COPYRIGHT: BIOL ABS.

2/3/15 (Item 15 from file: 156)

02548642 Subfile: BIOSIS-92-03996

In vitro degradation of some organophosphorus insecticides by susceptible and resistant diamondback moth.

KAO C-H; SUN C-N

Dep. Entomology, National Chung-Hsing Univ., Taichung, Taiwan 40227. Source: PESTIC BIOCHEM PHYSIOL; 41 (2). 1991. 132-141. Coden: PCBPB Language: ENGLISH

BIOSIS COPYRIGHT: BIOL ABS.

2/3/16 (Item 16 from file: 156)

02548535 Subfile: BIOSIS-92-03889

Organophosphates biodegradation in anaerobic media by immobilised enzymatic activity.

HADDANE M; RAMBAUD A; COLETTI-PREVIERO M-A

Dep. Sci. Environnement Sante Publique, Fac. Pharmacie, Montpellier, Fr.

Source: ENVIRON TECHNOL; 12 (10). 1991. 887-896. Coden: ENVTE

Language: ENGLISH

BIOSIS COPYRIGHT: BIOL ABS.

2/3/17 (Item 17 from file: 156)

02539331 Subfile: BIOSIS-91-32109

Detoxification spectrum of the cigarette beetle symbiont Symbiotaphrina kochii in culture.

SHEN SK; DOWD PF

Zoonotic Dis. Lab., U.S.D.A., A.R.S., BARC-East, Beltsville, Md. 20705, USA.

Source: ENTOMOL EXP APPL; 60 (1). 1991. 51-60. Coden: ETEAA

Language: ENGLISH

BIOSIS COPYRIGHT: BIOL ABS.

2/3/18 (Item 18 from file: 156) 02532097 Subfile: BIOSIS-91-24870

High paraoxon-hydrolyzing activity in organophosphorus

insecticide-resistant mosquitoes. WATANABE M; TAKEBE S; KOBASHI K

Fac. Pharm. Sci., Toyama Med. Pharm. Univ., 2630 Sugitani, Toyama-shi 930-01, Jpn.

Source: CHEM PHARM BULL (TOKYO); 39 (4). 1991. 980-985. Coden: CPBTA

Language: ENGLISH

BIOSIS COPYRIGHT: BIOL ABS.

2/3/19 (Item 19 from file: 156)

02516498 Subfile: BIOSIS-91-09116

A possible novel link between organophosphorus and DDT insecticide resistance genes in Anopheles: Supporting evidence from fenitrothion metabolism studies.

HEMINGWAY J; MIYAMOTO J; HERATH PR

Dep. Medical Parasitology, London School Hygiene Tropical Medicine, Keppel Street, London WC1E 7HT.

Source: PESTIC BIOCHEM PHYSIOL; 39 (1). 1991. 49-56. Coden: PCBPB

Language: ENGLISH

BIOSIS COPYRIGHT: BIOL ABS.

2/3/20 (Item 20 from file: 156)

02512578 Subfile: BIOSIS-91-05195

HEN LIVER AND PLASMA CAN METABOLIZE HEXYL-DCP PHOSPHORAMIDATE AT A RATE COMPARABLE TO THAT OF RAT

DIAZ-ALEJO N; PELLIN MC; VICEDO JL; VILANOVA E

Source: SECOND MEETING OF THE INTERNATIONAL NEUROTOXICOLOGY ASSOCIATION, SITGES, SPAIN, MAY 22-26, 1989. NEUROTOXICOL TERATOL; 12 (6). 1990. 615-618. Coden: NETEE

Language: ENGLISH

BIOSIS COPYRIGHT: BIOL ABS. RRM

2/3/21 (Item 21 from file: 156) 02507949 Subfile: BIOSIS-91-00564

Photocatalytic degradation of organophosphorous insecticides in aqueous

semiconductor suspensions. HARADA K; HISANAGA T; TANAKA K Natl. Chem. Lab. Industry, Higashi 1-1, Tsukuba, Jpn. Source: WATER RES; 24 (11). 1990. 1415-1418. Coden: WATRA Language: ENGLISH BIOSIS COPYRIGHT: BIOL ABS. 2/3/22 (Item 22 from file: 156) 02501578 Subfile: BIOSIS-90-28251 Decomposition of organophosphorus compounds on photoactivated titanium dioxide surfaces. GRATZEL CK; JIROUSEK M; GRATZEL M Chim. Physique, Ecole Polytechnique Fed. Lausanne, CH-1015 Lausanne, Switzerland. Source: J MOL CATAL; 60 (3). 1990. 375-388. Coden: JMCAD Language: ENGLISH BIOSIS COPYRIGHT: BIOL ABS. (Item 23 from file: 156) 2/3/23 Subfile: BIOSIS-90-11768 Inactivation of organophosphorus nerve agents by the phosphotriesterase from Pseudomonas diminuta. DUMAS DP; DURST HD; LANDIS WG; RAUSHEL FM; WILD JR Dep. Biochem., Texas A and M Univ., College Station, Texas 77843. Source: ARCH BIOCHEM BIOPHYS; 277 (1). 1990 155-159. Coden: ABBIA Language: ENGLISH NA BIOSIS COPYRIGHT: BIOL ABS. (Item 24 from file: 156) 2/3/24 Subfile: BIOSIS-89-29207 02466413 IN-VITRO DEGRADATION OF THE STEREOISOMERS OF SOMAN IN GUINEA-PIG MOUSE AND HUMAN SKIN VAN DONGEN CJ; DE LANGE J; VAN GENDEREN J Source: BIOCHEM PHARMACOL; 38 (14). 1989. 2263-2268. Coden: BCPCA Language: ENGLISH BIOSIS COPYRIGHT: BIOL ABS. RRM 2/3/25 (Item 25 from file: 156) 02464696 Subfile: BIOSIS-89-27490 CHARACTERIZATION OF A DFP HYDROLYZING ENZYME FROM AN OBLIGATE HALOPHILE DEFRANK JJ; CHEUNG TC Source: 89TH ANNUAL MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY, NEW Language: ENGLISH BIOSIS COPYRIGHT: BIOL ABS. RRM

ORLEANS, LOUISIANA, USA, MAY 14-18, 1989. ABSTR ANNU MEET AM SOC MICROBIOL; 89 (0). 1989. 276. Coden: ASMAC

(Item 26 from file: 156) 2/3/26 02340997 Subfile: BIOSIS-86-12425

DETOXIFICATION OF THE ORGANOPHOSPHORUS INSECTICIDE CHLORFENVINPHOS BY RAT RABBIT AND HUMAN LIVER ENZYMES

HUTSON DH; LOGAN CJ

Source: XENOBIOTICA; 16 (1). 1986. 87-93. Coden: XENOB

Language: ENGLISH

BIOSIS COPYRIGHT: BIOL ABS. RRM

2/3/27 (Item 27 from file: 156) Subfile: NTIS-AD-A250 676-4 02307268

Polymeric Amine-Copper (II) Complex as Catalyst for the Hydrolysis of 1,2,2-Trimethylpropyl Methylphosphonofluoridate (Soman) and Bis(1-methyleth

yl) phosphorofluoridate (DFP). Hammond PS; Forster JS Army Medical Research Inst. of Chemical Defense, Aberdeen Proving Ground, Source: Govt Reports Announcements & Index (GRA&I), Issue 18, 1992 Language: UNSPECIFIED Contract Number: Proj. 3M162787A875, Task BA Info.: NTIS/AD-A250 676/4, Availability: Pub. in Jnl. of Applied Science, v43 p1925-1931, 1991. Available to DTIC users only. No Polymer copies furnished by NTIS., 8p NTIS Prices: Not available NTIS (Item 28 from file: 156) 2/3/28 Subfile: NTIS-AD-A233 635-2 02289123 Screening of Organophosphorus Acid Anhydrases from Different Sources by Western Blot Analysis. Cheng TC; Miller M; DeFrank J Chemical Research, Development and Engineering Center, Aberdeen Proving Ground, MD. Source: Govt Reports Announcements & Index (GRA&I), Issue 16, 1991 Language: UNSPECIFIED Contract Number: Proj. 1L162622A553 Order Info.: NTIS/AD-A233 635/2, 19p NTIS Prices: PC A03/MF A01 2/3/29 (Item 29 from file: 156) Subfile: NTIS-AD-A230 945-8 02288114 Hepatic Subcellular Localization of Cresylbenzodioxapholphorin Oxide (CBDP) - Sensitive Soman Binding Sites. Little JS; Maxwell DM; Fox-Talbot MK; Brecht K; Lenz DE Army Medical Research Inst. of Chemical Defense, Aberdeen Proving Ground, MD. Source: Govt Reports Announcements & Index (GRA&I), Issue 13, 1991 Language: UNSPECIFIED Contract Number: Proj. 3M162787A875, Task AA Order Info.: NTIS/AD-A230 945/8, 6p NTIS Prices: PC A02/MF A01 (Item 30 from file: 156) 2/3/30 02285734 Subfile: FEDRIP-91-01301746 GENETIC ROLE IN TOXICITIES OF ANTIESTERASE PESTICIDES EHRICH M; JORTNER BS; GROSS WB OF VET MED/VETERINARY MEDICAL EXP VA-MD REGIONAL COLL STATION, BLACKSBURG, VIRGINIA 24061 Source: FEDRIP DATABASE, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS) Language: UNSPECIFIED Spon. Agency: U. S. DEPARTMENT OF AGRICULTURE/COOPERATIVE STATE RES SER Contract Number: AGRIC VA-135243 2/3/31 (Item 31 from file: 156) 02261860 Subfile: NTIS-AD-A213 677-8 Characterization Protein Crystallography of OPA Biochemical and Anhydrase. Ward KB; Deschamps JR; Zuk WM Naval Research Lab., Washington, DC. Source: Govt Reports Announcements & Index (GRA&I), Issue 04, 1990

02257019 Subfile: NTIS-AD-A209 713-7
Studies on the Purification of Squid-Type DFPase Suitable for Genetic Engineering Application.

Order Info.: NTIS/AD-A213 677/8, 8p NTIS Prices: PC A02/MF A01

(Item 32 from file: 156)

Language: UNSPECIFIED

2/3/32

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Rajan KS; Mainer S
  IIT Research Inst., Chicago, IL.
  Source: Govt Reports Announcements & Index (GRA&I), Issue 21, 1989
  Language: UNSPECIFIED
  Contract Number: Contract N00014-87-K-0450
  Order Info.: NTIS/AD-A209 713/7, 5p NTIS Prices: PC A02/MF A01
            (Item 33 from file: 156)
 2/3/33
02243664
           Subfile: NTIS-AD-A203 993-1
  Surface Chemistry of Organophosphorus Compounds,
  Ekerdt JG; Klabunde KJ; Shapley JR; White JM; Yates JT
  Pittsburgh Univ., PA. Surface Science Center.
  Source: Govt Reports Announcements & Index (GRA&I), Issue 11, 1989
  Language: UNSPECIFIED
  Spon. Agency: Army Research Office, Research Triangle Park, NC.
  Contract Number: Contract DAAL03-86-K-0005
  Order Info.: NTIS/AD-A203 993/1, 8p NTIS Prices: PC A02/MF A01
            (Item 34 from file: 156)
 2/3/34
           Subfile: NTIS-AD-A203 001-3
02242749
  Soman Hydrolyzing and Detoxifying Properties of
                                                        an
                                                            Enzyme
Thermophilic Bacterium,
  Chettur G; DeFrank JJ; Gallo BJ; Hoskin FC; Mainer S
  Illinois Inst. of Tech., Chicago.
  Source: Govt Reports Announcements & Index (GRA&I), Issue 10, 1989
  Language: UNSPECIFIED
  Spon. Agency: Army Research Office, Research Triangle Park, NC.
  Contract Number: Contract DAAG29-86-K-0069
  Order Info.: NTIS/AD-A203 001/3, 9p NTIS Prices: PC A02/MF A01
            (Item 35 from file: 156)
 2/3/35
02200730
           Subfile: HMTC-86-0003384
  ENZYMATIC AND MICROBIAL DEGRADATION OF TOXIC MATERIALS
  White WE
  Source: Pollution Engineering 18(3):28-30; 1986.
  Language: ENGLISH
 2/3/36
            (Item 36 from file: 156)
02156570
          Subfile: TOXBIB-90-226061
  Biochemical approach to occupational neurotoxicology.
 Lotti M; Moretto A; Caroldi S
  Source: Arh Hig Rada Toksikol; VOL 40, ISS 2, 1989, P231-9 ISSN:
0004-1254 Coden: 8MK
  Language: ENGLISH
  Document Type: JOURNAL ARTICLE
 2/3/37
            (Item 37 from file: 156)
02149944
           Subfile: TOXBIB-90-054266
  Spectrophotometric assays for the enzymatic hydrolysis of the active
metabolites
               of
                      chlorpyrifos
                                        and
                                               parathion
                                                              by
                                                                     plasma
paraoxonase/arylesterase.
 Furlong CE; Richter RJ; Seidel SL; Costa LG; Motulsky AG
  Department of Medicine (Division of Medical Genetics), University of
Washington, Seattle 98195.
  Source: Anal Biochem; VOL 180, ISS 2, 1989, P242-7 ISSN: 0003-2697
Coden: 4NK
 Language: ENGLISH
 Document Type: JOURNAL ARTICLE
            (Item 38 from file: 156)
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2/3/38

Subfile: TOXBIB-85-196937 Enzymatic hydrolysis of atracurium in vivo. Nigrovic V; Auen M; Wajskol A Source: Anesthesiology; VOL 62, ISS 5, 1985, P606-9 ISSN: 0003-3022 Coden: 4SG Language: ENGLISH Document Type: JOURNAL ARTICLE (Item 39 from file: 156) Subfile: TOXBIB-86-137195 02005896 Carboxylesterases, importance for detoxification of organophosphorus anticholinesterases and trichothecenes. Fonnum F; Sterri SH; Aas P; Johnsen H Source: Fundam Appl Toxicol; VOL 5, ISS 6 Pt 2, 1985, PS29-38 ISSN: 0272-0590 Coden: FAB Language: ENGLISH Document Type: JOURNAL ARTICLE (Item 40 from file: 156) 2/3/40 Subfile: HMTC-85-0002560 01985199 A FRUIT FLY BIOASSAY WITH PHOSPHOTRIESTERASE FOR DETECTION OF CERTAIN ORGANOPHOSPHORUS INSECTICIDE RESIDUES Chaing T; Dean MC; McDaniel CS Environmental Contamination Source: Bulletin of and Toxicology 34(6):809-814; 1985. Language: ENGLISH 2/3/41 (Item 41 from file: 156) 01919209 Subfile: HEEP-84-04768 Effect of pretreatment with sodium phenobarbital on the toxicity of soman in mice. CLEMENT JG Biomedical Sect., Defence Research Establishment Suffield, Alberta, Canada TOJ 2NO. Source: BIOCHEM PHARMACOL; 32 (8). 1983. 1411-1416. Coden: BCPCA Language: ENGLISH HEEP COPYRIGHT: BIOL ABS. 2/3/42 (Item 42 from file: 156) Subfile: NTIS-DE83704321 01858270 Persistence of Organophosphorus Pesticides in Aquatic Environments. Coordinated Programme on Isotope-Tracer-Aided Research and Monitoring on Agricultural Residue - Biological Interactions in Aquatic Environment. Final Report for the Period 1 July 1976 - 31 July 1982. Horvath L International Atomic Energy Agency, Vienna (Austria). Source: Govt Reports Announcements & Index (GRA&I), Issue 13, 1984 Language: UNSPECIFIED Contract Number: IAEA-R-1793-F Order Info.: NTIS/DE83704321, U.S. Sales Only., 8p NTIS Prices: PC A02/MF A01 (Item 43 from file: 156) 2/3/43 Subfile: NTIS-AD-A110 841-4 A Physiological and Biochemical Basis for the Action of Soman and Related Agents at the Acetylcholine Receptor Illinois Inst. of Tech., Chicago. Dept. of Biology.

Source: Govt Reports Announcements & Index (GRA&I), Issue 12, 1982

Language: UNSPECIFIED

Spon. Agency: Army Research Office, Research Triangle Park, NC. Contract Number: Grant DAAG29-78-G-0090 Order Info.: NTIS/AD-A110 841/4, 23p NTIS Prices: PC A02/MF A01 2/3/44 (Item 44 from file: 156) 01753012 Subfile: TOXBIB-84-098494 Effect of repeated oral administration of quinalphos on blood esterases in Bubalus bubalis. Srivastava AK; Paul BS; Malik JK Source: Toxicol Lett; VOL 19, ISS 1-2, 1983, P165-9 ISSN: 0378-4274 Coden: VXN Language: ENGLISH Document Type: JOURNAL ARTICLE (Item 45 from file: 156) 2/3/45 Subfile: HEEP-81-00210 01668168 The effect of hepatic microsomal monooxygenase induction on the toxicity of the organophosphorus insecticide metabolism and chlorfenvinphos. HUTSON DH; WRIGHT AS Shell Toxicol. Lab., Shell Res. Ltd., Sittingbourne, Kent ME9 8AG, Engl., UK. Source: CHEM-BIOL INTERACT; 31 (1). 1980. 93-102. Coden: CBINA Language: UNSPECIFIED HEEP COPYRIGHT: BIOL ABS. (Item 46 from file: 156) Subfile: PESTAB-81-0803 Intoxication par les organophosphores. A propos d'une observation chez un enfant de 2 ans. [Intoxication by organophosphorus insecticides. A case history of a 2 year old infant.] Abbadie D; Colle M; Battin J Clin. Mal. Enfants, Hop. Enfants, F-33077 Bordeaux, France Source: Pediatrie 35(6): 545-552 1980 (10 References) Coden: PEDRA Language: FRENCH 2/3/47 (Item 47 from file: 156) 01655442 Subfile: PESTAB-81-0674 Pesticide breakdown by soil enzymes. Burns RG; Edwards JA Biol. Lab., Univ. Kent, Cantebury, Kent CT2 7NJ, England Source: Pestic. Sci. 11(5): 506-512 1980 (43 References) Coden: PSSCB Language: UNSPECIFIED 2/3/48 (Item 48 from file: 156) Subfile: PESTAB-81-0388 01655186 Hydrolyse chimique et activite pesticide. [Chemical hydrolysis and pesticidal activity. Bastide J; Coste CM; Meallier P Groupe Etud. & Rech. Appl. Pluridisciplinaires, Univ. Perpignan, F-66025 Perpignan, France Source: Bull. Soc. Chim. Fr. II(7-8): 405-415 1980 (90 References) Coden: BSCFA Language: FRENCH 2/3/49 (Item 49 from file: 156) Subfile: PESTAB-80-3226 Metabolism of several insecticides by glutathion S-transferase. Fukami JI

Lab. Insect Toxicol., Inst. Phys. Chem. Res., Wako, Saitama, Japan

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Source: Pharmacol. Ther. Part A 10(3): 473-514 1980 (110 References)
Coden: PTPAD
 Language: UNSPECIFIED
           (Item 50 from file: 156)
2/3/50
01599596 Subfile: HEEP-80-02392
 Studies on mode of action and selectivity mechanism of herbicides.
 MATSUNAKA S
 Dep. Plant Prot., Fac. Agric., Kobe Univ., Rokkodaicho, Nada, Kobe 657,
 Source: J PESTIC SCI (NIHON NOYAKUGAKU KAISHI); 3 (2). 1978. 195-202.
Coden: NNGAD
 Language: UNSPECIFIED
 HEEP COPYRIGHT: BIOL ABS.
 2/3/51
           (Item 51 from file: 156)
01549786
          Subfile: PESTAB-80-0557
 Isolation of an enzyme from soil that degrades the organophosphorus
insecticide, crotoxyphos.
 Getzin LW; Satyanarayana T
 Western Washington Res. & Ext. Cent., Washington State Univ., Puyallup,
WA 98371
                   Environ.
                              Contam.
                                       Toxicol. 8(6):
                                                        661-672 1979 (13
 Source:
           Arch.
References) Coden: AECTC
 Language: UNSPECIFIED
           (Item 52 from file: 156)
01549550
          Subfile: PESTAB-80-0118
 The bacterial degradation of p-nitrophenol.
 Spain JC
 Univ. Texas, Austin, TX
 Source: Diss. Abstr. Int. B 40(3): 1168 1979 Coden: DABBB
 Language: UNSPECIFIED
 2/3/53
          (Item 53 from file: 156)
01548830 Subfile: PESTAB-79-2591
                              pesticides in the soil medium:
                                                                       the
 Chemical conversion of
organophosphates.
 Yaron B
 Dep. Agric. Sci., Univ. Oxford, Oxford, England
           IN: Advances in Pesticide Science. Geissbuehler, H.,
(Pergamon Press: Oxford, England) (3): 577-585 1979 (40 References)
Coden: BOOKA
 Language: UNSPECIFIED
           (Item 54 from file: 156)
          Subfile: PESTAB-79-0918
01547819
 Comparative in vitro metabolism of tetrachlorvinphos by the soluble
fraction (105000 g) from sheep, pig, and cow liver homogenates.
 Akhtar MH; Foster TS
 Anim. Res. Inst., Agric. Canada, Ottawa, Ont. K1A 0C6, Canada
 Source: J. Agric. Food Chem. 27(1): 113-116 1979 (8 References) Coden:
JAFCA
 Language: UNSPECIFIED
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           (Item 55 from file: 156)
          Subfile: PESTAB-80-2191
01546418
 Microbial degradation of insecticides.
 Matsumura F; Benezet HJ
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Dep. Entomol., Univ. Wisconsin, Madison, WI

Source: In: Pesticide Microbiology. Hill, I. R. and Wright, S. J. L., eds. (Academic Press: London) (CH10): 623-667 1978 (134 References) Coden: XXXXX Language: UNSPECIFIED 2/3/56 (Item 56 from file: 156) 01543862 Subfile: PESTAB-78-1145 Metabolism of organophosphate pesticides. Rozengart VI I. M. Sechenov Inst. Evol. Physiol. Biochem., USSR Acad. Sci., Yalta, USSR Source: Khim. Sel'sk Khoz. (1): 54-64 1978 (39 References) Coden: KSKZA Language: RUSSIAN (Item 57 from file: 156) 2/3/57 01542440 Subfile: PESTAB-78-1306 A possible model for the surface-induced hydrolysis of organophosphorus pesticides on kaolinite clays. Mingelgrin U; Saltzman S; Yaron B Inst. Soil & Water, ARO, Volcani Cent., Bet Dagan, Israel Source: Soil Sci. Soc. Am. J. 41(3): 519-523 1977 (28 References) Coden: xxxxx Language: UNSPECIFIED (Item 58 from file: 156) 01359480 Subfile: HEEP-75-12372 phenylamide hydrolysis by Bacillus sphaericus with Inhibition of methylcarbamate and organophosphorus insecticides. ENGELHARDT G; WALLNOEFER PR Source: APPL MICROBIOL; 29 (6). 1975 717-721 Coden: APMBA Language: UNSPECIFIED HEEP COPYRIGHT: BIOL ABS. 2/3/59 (Item 59 from file: 156) Subfile: HEEP-74-03509 01334570 Cholinesterase activity determination as an index of occupational exposure to organo-phosphorus insecticides, inhibitors of this enzyme. SVETLICIC B; GAETA R; MELLO D; PUGA FR Source: ARQ INST BIOL SAO PAULO; 38 (4). 1971 (RECD 1972) 221-225 Coden: AIBOA Language: UNSPECIFIED HEEP COPYRIGHT: BIOL ABS. (Item 60 from file: 156) 2/3/60 01300070 Subfile: PESTAB-78-2254 Organophosphorus insecticides. Spencer EY Res. Inst., Agric. Canada, London, Ont., Canada Source: Adv. Environ. Sci. technol. 6: 295-312 1976 (33 References) Coden: AESTC Language: UNSPECIFIED (Item 61 from file: 156) 2/3/61 Subfile: PESTAB-76-1897 01298029 on the persistence of organophosphorus Effect of phosphatases insecticides in soil and water. Heuer B; Birk Y; Yaron B Source: J. Agric. Food Chem. 24(3): 611-613; 1976.(17 references) Coden: JAFCA

Language: UNSPECIFIED

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Language: UNSPECIFIED

(Item 69 from file: 156) 2/3/69 Subfile: PESTAB-74-2712 01292019 The influence of age and sex on the toxicity and multiple pathways of metabolism of methyl parathion and parathion in rats. Benke GM; Murphy SD Source: Toxicol. Appl. Pharmacol.29(1): 125; 1974 Language: UNSPECIFIED 2/3/70 (Item 70 from file: 156) 01291728 Subfile: PESTAB-74-2177 The role of nonoxidative metabolism in organophosphorus resistance. Motoyama N; Dauterman WC Source: J. Agr. Food Chem. 22(3): 350-356; 1974(REF:43) Language: UNSPECIFIED 2/3/71 (Item 71 from file: 156) 01291130 Subfile: PESTAB-76-2298 A liver arylamidase extremely sensitive to organophosphorus compounds. Satoh T; DuBois KP Source: Proc. Symp. Drug Metab. Action 5: 163-173; 1973.(18 references) Language: UNSPECIFIED (Item 72 from file: 156) 2/3/72 01291083 Subfile: PESTAB-76-1513 Modifications in the chemical structure of organophosphorus pesticides as related to various conditions of the physical, chemical, or biological environment. Giuran V Source: Igiena 22(8): 485-495; 1973.(21 references) Coden: IGIBA Language: Romanian 2/3/73 (Item 73 from file: 156) 01290313 Subfile: PESTAB-74-1478 Metabolic pathways of pesticides in external media and the problem of residues. Korotkova OA; Volkov AI Source: Zh. Vses. Khim. Obshchest.18(5): 552-562; 1973 Language: UNSPECIFIED (Item 74 from file: 156) 2/3/74 01290187 Subfile: PESTAB-74-1162 Environmental and toxicological aspects of the application of insecticides and herbicides. Prigge E Source: Deut. Tieraerztl. Wochenschr. 80(20): 485-488; 1973 Language: GERMAN 2/3/75 (Item 75 from file: 156) 01289862 Subfile: PESTAB-74-0386 Studies of organophosphorus insecticide toxicity and possible mechanisms of tolerance in insecticide-susceptible and -resistant populations of mosquitofish (Gambusia affinis). Chambers JE Source: Diss. Abstr. Int.34(5): 2259B; 1973 Language: UNSPECIFIED (Item 76 from file: 156) 2/3/76 01288778 Subfile: PESTAB-75-1418

Detoxification of

organophosphorus insecticide following enzymatic

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induction caused by urea herbicides.
  Bankowska J; Bojanowska A
  Source: Rocz. Panstw. Zakl. Hig.23(4): 487-493; 1972(REF:7) Coden: RPZHA
 Language: POLISH
            (Item 77 from file: 156)
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01288547
          Subfile: PESTAB-74-0766
 Metabolic interactions between enzymes and insecticides during grain
storage.
 Meuser F
  Source: Ann. Technol. Agr.21(4): 515-533; 1972
 Language: UNSPECIFIED
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            (Item 78 from file: 156)
          Subfile: HAPAB-73-01201
01287898
  Some actions of a new organophosphorus compound and one of its major
metabolites at the neuromuscular junction.
  Cholakis JM; Hemsworth BA
  Source: Toxicol. Appl. Pharmacol.; 22(2): 287; 1972
 Language: UNSPECIFIED
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01286967
          Subfile: HAPAB-72-01280
 Mode of action organophosphorus insecticides.
  Shishido T
  Source: Shokubutsu Boeki (Plant Protect.); 26(3): 98-102; 1972 ; (REF:5)
 Language: JAPANESE
            (Item 80 from file: 156)
 2/3/80
01193312
          Subfile: TOXBIB-73-042824
  [Detoxification
                        organophosphorous insecticides following
                   of
induction due to urea herbicides]
  Bankowska J; Bojanowska A
  Source: Rocz Panstw Zakl Hig; VOL 23, ISS 4, 1972, P487-93 ISSN:
0035-7715 Coden: TXT
 Language: POLISH
 Document Type: JOURNAL ARTICLE
 2/3/81
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01028958
          Subfile: PESTAB-76-1612
 Non-enzymatic reactions of organophosphorus compounds.
 Ruveda MA
  Source: Jornadas Argent. Toxicol. Anal. Actas 1:
                                                         148-156; 1971.(4
references) Coden: 26XQA
 Language: SPANISH
 2/3/82
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01028795 Subfile: HAPAB-73-01673
 Current problems of the toxicology of organophosphorus insecticides.
 Kagan YuS
  Source: Ernaehrungsforschung; 16(4): 503-514; 1971; (REF:33)
 Language: GERMAN
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01027941
          Subfile: HAPAB-72-00348
  Glutathione-dependent degradation of 2,2-dichlorovinyl dimethyl phosphate
(DDVP) by the rat.
 Dicowsky L JR; Morello A JR
  Source: Life Sci. Part II; 10(18): 1031-1037 1971; (REF:7)
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Language: UNSPECIFIED

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01027830
          Subfile: HAPAB-72-00143
 The toxicity of organophosphorus compounds to mammals.
 DuBois KP JR
 Source: Bull. World Health Organ.; 44(1-3): 233-40 1971; (REF:11)
 Language: UNSPECIFIED
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            (Item 85 from file: 156)
          Subfile: HAPAB-70-01189
01022303
 Kinetics of hydrolysis of diazinon and diazoxon.
 Gomaa HM; Suffet IH; Faust SD
 Source: Residue Rev.; 29: 171-90, 1969; (REF:32)
 Language: UNSPECIFIED
 2/3/86
            (Item 86 from file: 156)
01021632 Subfile: HAPAB-70-00257
 Mechanisms of pesticide interactions in vertebrates.
 Murphy SD
 Source: Residue Rev.; No. 25: 201-21, 1969; (REF:56)
 Language: UNSPECIFIED
            (Item 87 from file: 156)
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01021629 Subfile: HAPAB-70-00253
 Radiotracer studies on metabolism, degradation and mode of action of
insecticidal chemicals.
 Casida JE
 Source: Residue Rev.; No. 25: 149-59, 1969; (REF:50)
 Language: UNSPECIFIED
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            (Item 88 from file: 156)
01021610
           Subfile: HAPAB-70-00230
  Interactions.
  Zavon MR
 Source: BioScience; 19(10): 892-5, 1969; (REF:28)
 Language: UNSPECIFIED
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            (Item 89 from file: 156)
01021367
          Subfile: HAPAB-69-01660
 Metabolism of insecticides in plants and animals
 Fukuto RL TRMetcalf
 Source: Ann. N. Y. Acad. Sci.; 160(1), 97-111, 1969; (REF:80)
 Language: UNSPECIFIED
 2/3/90
            (Item 90 from file: 156)
01020408
           Subfile: HAPAB-69-01436
 An organophosphorus round-up: Part I.
 ANON
 Source: Food Cosmet. Toxicol.; 6(6), 794-7, 1968; (REF:17)
 Language: UNSPECIFIED
 2/3/91
            (Item 91 from file: 156)
01019107
           Subfile: HAPAB-67-00660
 Biochemical Mechanisms of Insect Resistance to Anticholinesterases
 Oppenoorth FJ
 Source: Biochem. J.; 102(1):2P-3P, 1967
 Language: UNSPECIFIED
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Subfile: HAPAB-67-00521

01019028

METABOLISM AND MODE OF ACTION OF ORGANOPHOSPHORUS INSECTICIDES Fukuto TR; Metcalf RL Source: Paper to be presented at Am. Chem. Soc. Meeting, Miami Beach, April 10-4, 1967, 1967 Language: UNSPECIFIED 2/3/93 (Item 93 from file: 156) 01019008 Subfile: HAPAB-67-00490 THE METABOLISM OF CONTACT INSECTICIDES IN SOTRED GRAINS Rowlands DG Source: Residue Reviews; 17: 105-77, 1967 Language: UNSPECIFIED (Item 94 from file: 156) 2/3/94 01018590 Subfile: HAPAB-67-00083 Nature of a Soluble, Glutathione-Dependent Enzyme System Active in Cleavage of Methyl Parathion to Desmethyl Parathion Fukami ShishidoT J Source: J. Econ. Entomol; 59(6):1338-46, 1966 Language: UNSPECIFIED 2/3/95 (Item 1 from file: 5) 9561570 BIOSIS Number: 94066570 CHARACTERIZATION OF THE ZINC BINDING SITE OF BACTERIAL PHOSPHOTRIESTERASE OMBURO G A; KUO J M; MULLINS L S; RAUSHEL F M CENT. MACROMOLECULAR DESIGN, TEXAS A AND M UNIV., COLLEGE STATION, TEXAS 77843-3255. J BIOL CHEM 267 (19). 1992. 13278-13283. CODEN: JBCHA Full Journal Title: Journal of Biological Chemistry Language: ENGLISH 2/3/96 (Item 2 from file: 5) 6988466 BIOSIS Number: 87048987 ORGANOFLUOROPHOSPHATE-HYDROLYZING ACTIVITY IN AN ESTUARINE CLAM RANGIA-CUNEATA ANDERSON R S; DURST H D; LANDIS W G CHESAPEAKE BIOL. LAB., UNIV. MARYLAND, SOLOMONS, MD. 20688. COMP BIOCHEM PHYSIOL C COMP PHARMACOL TOXICOL 91 (2). 1988. 575-578. CODEN: CBPCE Full Journal Title: Comparative Biochemistry and Physiology C Comparative Pharmacology and Toxicology Language: ENGLISH 2/3/97 (Item 3 from file: 5) BIOSIS Number: 85127197 INSECTICIDAL RESISTANCE OF CULEX-TRITAENIORHYNCHUS DIPTERA CULICIDAE IN JAPAN GENETICS AND MECHANISMS OF RESISTANCE TO ORGANOPHOSPHORUS INSECTICIDES TAKAHASHI M; YASUTOMI K DEP. MED. ENTOMOL., NATL. INST. HEALTH, SHINAGAWAKU, TOKYO, JPN. J MED ENTOMOL 24 (6). 1987. 595-603. CODEN: JMENA Full Journal Title: Journal of Medical Entomology Language: ENGLISH (Item 4 from file: 5) 2/3/98 5872464 BIOSIS Number: 84005029 TOXICOLOGICAL AND BIOCHEMICAL STUDIES ON COTTON LEAFWORM SPODOPTERA-LITTORALIS BOISD SAAD A F S A; EL-SEBAE A H; MOURAD A K; ZAGHLOUL O; OMAR M E

PLANT PROTECTION DEP., FAC. AGRICULTURE, HELWAN UNIV., ALEXANDRIA, EGYPT.

MEDED FAC LANDBOUWWET RIJKSUNIV GENT 51 (3 PART B). 1986 (RECD. 1987). 1223-1238. CODEN: MFLRA

Full Journal Title: Mededelingen van de Faculteit Landbouwwetenschappen Rijksuniversiteit Gent

Language: ENGLISH

2/3/99 (Item 5 from file: 5)

5840735 BIOSIS Number: 83103042

EFFECTS OF INSECTICIDES ON ENZYME ACTIVITIES IN SOIL ENVIRONMENT HONG J-U; KIM J-E

DEP. AGRIC. CHEMISTRY, COLLEGE AGRIC., KYUNGPOOK NATL. UNIV., TAEGU, KOREA.

J KOREAN AGRIC CHEM SOC 29 (3). 1986. 294-303. CODEN: JKACA Full Journal Title: Journal of the Korean Agricultural Chemical Society Language: ENGLISH

2/3/100 (Item 6 from file: 5)

5774415 BIOSIS Number: 83036722

RAPID IN-VITRO SCREENING ASSAY FOR IMMUNOTOXIC EFFECTS OF ORGANOPHOSPHORUS AND CARBAMATE INSECTICIDES ON THE GENERATION OF CYTOTOXIC T LYMPHOCYTE RESPONSES

RODGERS K E; LEUNG N; IMAMURA T; DEVENS B H

LIVINGSTON REPRODUCTIVE BIOL. LAB., LAC/USC, 1321 N. MISSION RD. 110, LOS ANGELES, CALIF. 90033.

PESTIC BIOCHEM PHYSIOL 26 (3). 1986. 292-301. CODEN: PCBPB Full Journal Title: Pesticide Biochemistry and Physiology Language: ENGLISH

2/3/101 (Item 7 from file: 5)

5436534 BIOSIS Number: 82081337

AMPLIFICATION OF AN ESTERASE GENE IS RESPONSIBLE FOR INSECTICIDE RESISTANCE IN A CALIFORNIA CULEX MOSQUITO

MOUCHES C; PASTEUR N; BERGE J B; HYRIEN O; RAYMOND M; DE SAINT VINCENT B R; DE SILVESTRI M; GEORGHIOU G P

INST. NATL. DE LA RECHERCHE AGRONOMIQUE, STATION RECHERCHES NEMATOL. ET GENETIQUE MOLECULAIRE DES INVERTEBRES, B.P. 2078, 06606 ANTIBES, FR. SCIENCE (WASH D C) 233 (4765). 1986. 778-780. CODEN: SCIEA Language: ENGLISH

2/3/102 (Item 8 from file: 5)

5362259 BIOSIS Number: 82007062

ORGANOPHOSPHORUS ANTICHOLINESTERASES DO NOT MEDIATE ANALGESIA THROUGH INHIBITION OF ENKEPHALIN DEGRADATION

MARCHNER H; HARALDSSON S; LUNDBERG S

NATL. DEFENCE RES. INST., DIV. EXPERIMENTAL MED. DEP. 4, S-901 82 UMEA, SWEDEN.

LIFE SCI 38 (14). 1986. 1317-1322. CODEN: LIFSA

Full Journal Title: Life Sciences

Language: ENGLISH

2/3/103 (Item 9 from file: 5)

4927299 BIOSIS Number: 80054610

ANALYSIS OF SOMAN AND SARIN IN BLOOD UTILIZING A SENSITIVE GAS CHROMATOGRAPHY-MASS SPECTROMETRY METHOD

SINGH A K; ZELEZNIKAR R J JR; DREWES L R

DEP. BIOCHEM., SCH. MED., UNIV. MINN., DULUTH, MN 55812.

J CHROMATOGR 324 (1). 1985. 163-172. CODEN: JOCRA

Full Journal Title: Journal of Chromatography

Language: ENGLISH

2/3/104 (Item 10 from file: 5) BIOSIS Number: 80020948 4893637 JOINT ACTION OF INSECTICIDE AND SYNERGIST MIXTURES ON THE DIAMONDBACK MOTH PLUTELLA-XYLOSTELLA FENG H T PESTICIDE TOXICOL. DIV., PLANT PROTECTION CENT., TAIWAN, WUFENG, TAIWAN. PLANT PROT BULL 26 (4). 1984 (RECD. 1985). 401-412. CODEN: PLPBB Full Journal Title: Plant Protection Bulletin Language: ENGLISH 2/3/105 (Item 11 from file: 5) 4413818 BIOSIS Number: 77089145 OSTEOGENIC PERIOSTEUM ESTERASE ACTIVITY A COMPARATIVE MORPHOLOGICAL AND CYTOCHEMICAL STUDY OF BONE CELLS IN-SITU ON RAT PROXIMAL TIBIAE AND IN SMEARS RIES W L DEP. PERIODONTICS, SCH. DENTISTRY, MED. COLL. VA., VA. COMMONWEALTH UNIV., RICHMOND, VA. 23298. J HISTOCHEM CYTOCHEM 32 (1). 1984. 55-62. CODEN: JHCYA Full Journal Title: Journal of Histochemistry and Cytochemistry Language: ENGLISH 2/3/106 (Item 12 from file: 5) BIOSIS Number: 77039710 EFFECT OF PRE TREATMENT WITH SODIUM PHENO BARBITAL ON THE TOXICITY OF SOMAN IN MICE CLEMENT J G BIOMEDICAL SECT., DEFENCE RESEARCH ESTABLISHMENT SUFFIELD, RALSTON, ALBERTA, CANADA TOJ 2NO. BIOCHEM PHARMACOL 32 (8). 1983. 1411-1416. CODEN: BCPCA Full Journal Title: Biochemical Pharmacology Language: ENGLISH 2/3/107 (Item 13 from file: 5) 4117776 BIOSIS Number: 76067627 PURIFICATION OF A BACTERIAL ALCALIGENES NC-5 ORGANO PHOSPHATE HYDROLYZING PHOSPHATASE BY CIBACRON 3-GA SEPHAROSE AFFINITY CHROMATOGRAPHY PAI S B NATL. INST. ENVIRON. HEALTH SCI., P.O. BOX 12233, RESEARCH TRIANGLE PARK, N.C. 27709. BIOCHEM BIOPHYS RES COMMUN 110 (2). 1983. 412-416. CODEN: BBRCA Full Journal Title: Biochemical and Biophysical Research Communications Language: ENGLISH 2/3/108 (Item 14 from file: 5) 4100011 BIOSIS Number: 76049862 THE BIOCHEMICAL BASIS OF RESISTANCE TO ORGANO PHOSPHORUS INSECTICIDES IN THE SHEEP BLOW FLY LUCILIA-CUPRINA HUGHES P B; DEVONSHIRE A L BIOL. CHEM. RES. INST., N.S.W. DEP. AGRIC., RYDALMERE, 2116, AUST. PESTIC BIOCHEM PHYSIOL 18 (3). 1982. 289-297. CODEN: PCBPB

4039493 BIOSIS Number: 75086852
A CARBOXYL ESTERASE WITH BROAD SUBSTRATE SPECIFICITY CAUSES ORGANO PHOSPHORUS CARBAMATE AND PYRETHROID RESISTANCE IN PEACH POTATO APHIDS MYZUS-PERSICAE
DEVONSHIRE A L; MOORES G D

Full Journal Title: Pesticide Biochemistry and Physiology

(Item 15 from file: 5)

Language: ENGLISH

2/3/109

DEP. INSECTICIDES FUNGICIDES, ROTHAMSTED EXP. STATION, HARPENDEN, HERTFORDSHIRE, UK. PESTIC BIOCHEM PHYSIOL 18 (2). 1982. 235-246. CODEN: PCBPB Full Journal Title: Pesticide Biochemistry and Physiology Language: ENGLISH 2/3/110 (Item 16 from file: 5) 4000833 BIOSIS Number: 75048192 CHARACTERIZATION OF GLUTATHIONE S TRANSFERASES IN RELATION TO AZINPHOS-METHYL RESISTANCE MOTOYAMA N LAB. ENVIRON. BIOL., FAC. HORTIC., CHIBA UNIV., MATSUDO, CHIBA 271, JPN. J PESTIC SCI (NIHON NOYAKU GAKKAISHI) 7 (3). 1982. 415-426. NNGAD Language: JAPANESE 2/3/111 (Item 17 from file: 5) BIOSIS Number: 74031069 3731206 EFFECTS OF THE FUNGICIDE DI ISO PROPYL-S-BENZYL PHOSPHOROTHIOLATE AS A SYNERGIST ON THE METABOLISM OF MALATHION IN INSECTS YEOH C L; KUWANO E; ETO M RES. AND DEVELOPMENT DEP., AGRICULTURAL CHEM. M SDN. BHD., P.O. BOX 78, BUTTERWORTH, PENANG, MALAYSIA. J PESTIC SCI (NIHON NOYAKU GAKKAISHI) 7 (1). 1982. 31-40. CODEN: NNGAD Language: ENGLISH (Item 18 from file: 5) 2/3/112 3616917 BIOSIS Number: 73009284 IN-VITRO DEGRADATION OF ORGANO PHOSPHORUS ACARICIDES BY THE MITES SANCASSANIA-BERLESEI TYROGLYPHIDAE AND TETRANYCHUS-URTICAE TETRANYCHIDAE BLANK R H AGRICULTURAL RESEARCH DIV., MINISTRY OF AGRICULTURE, P.B., WHANGAREI, NEW ZEALAND. N Z J AGRIC RES 23 (4). 1980 (RECD. 1981). 589-593. CODEN: NEZFA Full Journal Title: New Zealand Journal of Agricultural Research Language: ENGLISH 2/3/113 (Item 19 from file: 5) 3111570 BIOSIS Number: 70061477 THE EFFECT OF HEPATIC MICROSOMAL MONO OXYGENASE INDUCTION ON THE METABOLISM AND TOXICITY OF THE ORGANO PHOSPHORUS INSECTICIDE **CHLORFENVINPHOS** HUTSON D H; WRIGHT A S SHELL TOXICOL. LAB., SHELL RES. LTD., SITTINGBOURNE, KENT ME9 8AG, ENGL., UK. CHEM-BIOL INTERACT 31 (1). 1980. 93-102. CODEN: CBINA Full Journal Title: Chemico-Biological Interactions Language: ENGLISH 2/3/114 (Item 20 from file: 5) BIOSIS Number: 68006265 2751358 COMPARATIVE IN-VITRO METABOLISM OF TETRACHLORVINPHOS BY THE SOLUBLE FRACTION 105000 GRAVITY FROM SHEEP PIG AND COW LIVER HOMOGENATES AKHTAR M H; FOSTER T S

J AGRIC FOOD CHEM 27 (1). 1979. 113-116. CODEN: JAFCA Full Journal Title: Journal of Agricultural and Food Chemistry Language: ENGLISH

ANIM. RES. INST., AGRIC. CAN. RES. BRANCH, OTTAWA, ONT. K1A OC6, CAN.

2/3/115 (Item 21 from file: 5)

BIOSIS Number: 67038459 2701056 INSECTICIDAL PROPERTIES ANTI ESTERASE ACTIVITIES AND METABOLISM OF **METHAMIDOPHOS** KHASAWINAH A M A; MARCH R B; FUKUTO T R UNION CARBIDE CORP., P.O. BOX 8361, SOUTH CHARLESTON, W. VA. 25303, USA. PESTIC BIOCHEM PHYSIOL 9 (2). 1978 211-221. CODEN: PCBPB Full Journal Title: Pesticide Biochemistry and Physiology Language: ENGLISH (Item 22 from file: 5) 2/3/116 2460790 BIOSIS Number: 66007695 STUDIES ON THE INTERACTION OF THE JUVENILE HORMONE ANALOG R-20458 AND THE ORGANO PHOSPHORUS COMPOUND DURSBAN ON THE REPRODUCTIVE BIOLOGY OF MATACIL SUSCEPTIBLE AND RESISTANT STRAINS OF SPODOPTERA-LITTORALIS EL-GUINDY M A; ABDEL-SATTAR M M; EL-ASSAR M R S CENT. AGRIC. PEST. LABOR., MINIST. AGRIC., DOKKI, EGYPT. Z ANGEW ENTOMOL 84 (4). 1977 (RECD 1978) 424-430. CODEN: ZANEA Full Journal Title: Zeitschrift fuer Angewandte Entomologie Language: ENGLISH (Item 23 from file: 5) 2/3/117 BIOSIS Number: 65021210 2394802 PURIFICATION AND PROPERTIES OF HOUSE FLY GLUTATHIONE S TRANSFERASE MOTOYAMA N; DAUTERMAN W C DEP. ENTOMOL., N.C. STATE UNIV., RALEIGH, N.C. 27607, USA. INSECT BIOCHEM 7 (4). 1977 361-370. CODEN: ISBCA Full Journal Title: Insect Biochemistry Language: ENGLISH 2/3/118 (Item 24 from file: 5) 1974139 BIOSIS Number: 62063699 EFFECT OF PHOSPHATASES ON THE PERSISTENCE OF ORGANO PHOSPHORUS INSECTICIDES IN SOIL AND WATER HEUER B; BIRK Y; YARON B J AGRIC FOOD CHEM 24 (3). 1976 611-614. CODEN: JAFCA Full Journal Title: Journal of Agricultural and Food Chemistry 2/3/119 (Item 1 from file: 73) EMBASE No: 93220826 8917110 Effect of some metallic cations and organic compounds on the O-hexyl 0-2,5-dichlorophenyl phosphoramidate hydrolysing acivity in hen plasma Sogorb M.A.; Diaz-Alejo N.; Vilanova E.; Vicedo J.L.; Carrera V. Department of Neurochemistry, University of Alicante, E-03080 Alicante Spain TOXICOL. (Germany) , 1993, 67/6 (416-421) CODEN: ARTOD ISSN: 0340-5761 ADONIS ORDER NUMBER: 034057619300068X LANGUAGES: English SUMMARY LANGUAGES: English (Item 2 from file: 73) 2/3/120 8901657 EMBASE No: 93205386 Screening of halophilic bacteria and Alteromonas species for organophosphorus hydrolyzing enzyme activity DeFrank J.J.; Beaudry W.T.; Cheng T.-C.; Harvey S.P.; Stroup A.N.; Szafraniec L.L. Armv Edgewood-Research, Development and Engineering Center, Biochemical Decontamination Team, Aberdeen Proving Ground, MD 21010 USA

CHEM.-BIOL. INTERACT. (Ireland) , 1993, 87/1-3 (141-148) CODEN: CBINA

ISSN: 0009-2797 ADONIS ORDER NUMBER: 000927979300051B LANGUAGES: English SUMMARY LANGUAGES: English

2/3/121 (Item 3 from file: 73)

8505381 EMBASE No: 92181319

Extractive derivatization of aqueous drugs using polymeric phase transfer catalysts. I. Sensitive analyses of dialkyl phosphates as pentafluorobenzyl derivatives

Miki A.; Tsuchihashi H.; Ueda K.; Yamashita M.

Forensic Science Laboratory, Osaka Prefect. Police Headquarters, 3-1-16, Otemae, Chuo-ku, Osaka 540 Japan

JPN. J. TOXICOL. ENVIRON. HEALTH (Japan) , 1992, 38/2 (168-175) CODEN: JJTHE ISSN: 0013-273X

LANGUAGES: Japanese SUMMARY LANGUAGES: English

2/3/122 (Item 4 from file: 73)

6128965 EMBASE No: 86124025

Carboxyesterases, importance for detoxification of organophosphorus anticholinesterases and trichothecenes

Fonnum F.; Sterri S.H.; Aas P.; Johnsen H.

Norwegian Defence Research Establishment, Division for Environmental Toxicology, N-2007 Kjeller NORWAY

FUNDAM. APPL. TOXICOL. (USA) , 1985, 5/6II (S29-S38) CODEN: FAATD LANGUAGES: ENGLISH

2/3/123 (Item 5 from file: 73)

5733846 EMBASE No: 84229512

In vitro deacetylation studies of acetamidophenolic compounds in rat brain, liver and kidney

Baumann J.; Von Bruchhausen F.; Wurm G.

Institut fur Pharmakologie der Freien Universitat, D-1000 Berlin 33 GERMANY, WEST

ARZNEIM.-FORSCH./DRUG RES. (GERMANY, WEST) , 1984, 34/10 (1278-1282) CODEN: ARZNA

LANGUAGES: ENGLISH SUMMARY LANGUAGES: GERMAN

2/3/124 (Item 6 from file: 73)

5542235 EMBASE No: 84037901

Effect of repeated oral administration on quinalphos in blood esterases in Bubalus bubalis

Srivastava A.K.; Paul B.S.; Malik J.K.

Department of Pharmacology, Punjab Agriculture University, Ludhiana 141004 INDIA

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5360761 EMBASE No: 83112366

Purification of a bacterial organophosphate-hydrolysing phosphatase by Cibacron 3GA-Sepharose affinity chromatography

Balakrishna Pai S.

Microbiol. Cell Biol. Lab., Indian Inst. Sci., Bangalore-560012 INDIA BIOCHEM. BIOPHYS. RES. COMMUN. (USA), 1983, 110/2 (412-416) CODEN: BBRCA

LANGUAGES: ENGLISH

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5357252 EMBASE No: 83108840

The biochemical basis of resistance to organophosphorus insecticides in the sheep blowfly, Lucilia cuprina

Hughes P.B.; Devonshire A.L.

Biol. Chem. Res. Inst., New South Wales Dep. Agric., Rydalmere, 2116

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 LANGUAGES: ENGLISH
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1559359 EMBASE No: 80060234
 Non-enzymatic oxidation and reduction chemical model systems for the
study of pesticide transformation
 Worobey B.L.; Webster G.R.B.
 Pesticide Res. Lab., Dept. Soil Sci., Univ. Manitoba, Winnipeg, Manitoba
R3T 2N2 CANADA
  TOXICOL. ENVIRON. CHEM. REV. (ENGLAND) , 1979, 3/1 (1-60) CODEN: TXECB
 LANGUAGES: ENGLISH
            (Item 10 from file: 73)
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       EMBASE No: 77216981
833473
  Interactions between insecticides and soil microbes
  Tu C.M.; Miles J.R.W.
 Res. Inst., Agric. Canada, London CANADA
 RESIDUE REV. (--) , 1976, Vol.64 (17-65) CODEN: RREVA
 LANGUAGES: ENGLISH
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459665
      EMBASE No: 76040952
  Toxicity of DFP and related compounds to squids in relation to
cholinesterase inhibition and detoxifying enzyme levels
 Dettbarn W.D.; Hoskin C.G.
 Pharmacol. Dept., Vanderbilt Univ., Nashville, Tenn. USA
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CODEN: BECTA
 LANGUAGES: ENGLISH
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284387 EMBASE No: 75075275
  Chemical aspects of the loss of insecticides from soil
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  Shell Research Ltd., Sittingbourne UNITED KINGDOM
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 LANGUAGES: ENGLISH
2/3/131
            (Item 13 from file: 73)
        EMBASE No: 75023888
235122
  Increase in toxicity of sup 1sup 4C insecticides with polychlorinated
biphenyl compounds
 RADIOTRACER STUDIES OF CHEMICAL RESIDUES IN FOOD AND AGRICULTURE
 Lichtenstein E.P.
 Dept. Entomol., Univ. Wisconsin, Madison, Wis. USA
  IAEA PANEL PROC.SER. (--) , 1972, (137-142) CODEN: BOOKA
 LANGUAGES: ENGLISH
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       EMBASE No: 74014704
014525
 Effect of liver enzyme induction on paraoxon metabolism in the rat
  Te Yeh Ku; Dahm P.A.
  Dept. Zool. Entomol., Iowa State Univ., Ames, Ia. 50010 USA
  PESTIC.BIOCHEM.PHYSIOL. (USA) , 1973, 3/2 (175-188) CODEN: PCBPB
 LANGUAGES: ENGLISH
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11073112

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PASCAL No.: 93-0580122

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Effect of some metallic cations and organic compounds on the O-hexyl
0-2,5-dichlorophenyl phosphoramidate hydrolysing activity in hen plasma
  SOGORB M A; DIAZ-ALEJO N; VILANOVA E; VICEDO J L; CARRERA V
 Univ. Alicante, dep. neurochemistry, 03080 Alicente, Spain
 Journal: Archives of toxicology, 1993, 67 (6) 416-421
 Language: English
            (Item 2 from file: 144)
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  11065899 PASCAL No.: 93-0572908
 Biological degradation of explosives and chemical agents
 WALKER J E; KAPLAN D L
 ROSENBERG E, ed
 US Army Natick res., development eng. cent., Natick MA 01760-5020, USA
 Tel Aviv univ., dep. molecular microbiology biotechnology, Ramat Aviv,
Israel
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 Language: English
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  10685726
            PASCAL No.: 93-0195023
  Catalytic properties of cyclodextrins on the hydrolysis of parathion and
paraoxon in aquatic medium containing humic acids
 KAMIYA M; MITSUHASHI S; MAKINO M
 Univ. Shizuoka, graduate school environmental health sci., Yada,
Shizuoka-shi 422, Japan
 Journal: Chemosphere: (Oxford), 1992, 25 (12) 1783-1796
 Language: English
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  10201960 PASCAL No.: 92-0407862
 Solid-state SUP 3 SUP 1 P MAS NMR study of the distribution and reaction
or organophosphorus esters adsorbed on synthetic resin catalysts
 BEAUDRY W T; WAGNER G W; WARD J R
 Eng. cent., U.S. army chemical res. development, res. directorate,
Aberdeen Proving Ground MD 21010, USA
 Journal: Journal of molecular catalysis, 1992, 73 (1) 77-90
 Language: English
            (Item 5 from file: 144)
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 Purification and properties of an organophosphorus acid anhydrase from a
halophilic bacterial isolate
 DEFRANK J J; TU-CHEN CHENG
 Development eng. cent., U.S. army chemical res., biotechnology div.,
Aberdeen Proving Ground MD 21010-5423, USA
 Journal: Journal of bacteriology, 1991, 173 (6) 1938-1943
 Language: English
            (Item 6 from file: 144)
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 09048124
            PASCAL No.: 90-0216454
 Enzyme activity in soils showing enhanced degradation of organophosphate
insecticides
 SIKORA L J; KAUFMAN D D; HORNG L C
 Beltsville agricultural res. lab., soil-microbial system lab., Beltsville
MD 20705, USA
 Journal: Biology and fertility of soils, 1990, 9 (1) 14-18
 Language: English
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             (Item 7 from file: 144)
  08953941
            PASCAL No.: 90-0122077
  Catalytic hydrolysis of quinalphos on homoionic clays
  PUSINO A; GESSA C; KOZLOWSKI H
  Univ. Sassari, ist. chimica agraria, Sassari 07100, Italy
  Journal: Pesticide Science, 1988, 24 (1) 1-8
  Language: English
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             (Item 8 from file: 144)
             PASCAL No.: 90-0116329
  08948192
  Organofluorophosphate-hydrolyzing activiting in an estuarine clam, Rangia
cuneata
  ANDERSON R S; DURST H D; LANDIS W G
  Univ. Maryland, Chesapeake biological lab., Solomons MD 20688, USA
  Journal: Comparative biochemistry and physiology. C. Comparative
pharmacology and toxicology, 1988, 91 (2) 575-578
  Language: English
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  08841312
             PASCAL No.: 90-0009175
  In vitro degradation of malathion by the small brown planthopper,
Laodelphax striatellus (FALLEN), and the brown rice planthopper,
Nilaparvata lugens (STAL) (Hemiptera: Delphacidae)
  MIYATA T; SAITO T; KASSAI T; OZAKI K
  Nagoya univ., fac. agriculture, lab. applied entomology nematology,
Nagoya 464-01, Japan
  Journal: Applied Entomology and Zoology, 1989, 24 (2) 240-241
  Language: English
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             (Item 10 from file: 144)
  07947075
            PASCAL No.: 87-0475528
  Discovery of multiple organofluorophosphate hydrolyzing activities in the
protozoan Tetrahymena thermophila
  LANDIS W G; HALEY D M; HALEY M V; JOHNSON D W; DURST H D; SAVAGE R E JR
  Chemical res. development cent., Aberdeen Proving ground MD 21010-5423,
USA
  Journal: Journal of applied toxicology, 1987, 7 (1) 35-41
 Language: ENGLISH
 2/3/143
             (Item 11 from file: 144)
  07253576
            PASCAL No.: 86-0142453
  In vitro degradation of the four isomers of soman in human serum
  DE BISSCHOP H C; MAINIL J G; WILLEMS J L
  Tech. div. Army, Vilvoorde 1801, Belgium
  Journal: Biochemical pharmacology, 1985, 34 (11) 1895-1900
 Language: ENGLISH
 2/3/144
             (Item 12 from file: 144)
            PASCAL No.: 85-0150178
 The chemical stability of formulations of some hydrolyzable insecticides
in aqueous mixtures with hydrolysis catalysts
 CHAPMAN R A; HARRIS C
 Res. cent., London ON N6C 2V4, Canada
 Journal: Journal of environmental science and health. Part B. Pesticides,
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 Language: English
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  CIBA-GEIGY LTD, agricultural div., Basle, Switzerland
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  Language: English
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  05038971
            PASCAL No.: 83-0294719
  Enzymatic hydrolysis of malathion and other dithioate pesticides
  (hydrolyse enzymatique de malathion et d'autres pesticides dithioate)
  BARIK S; MUNNECKE D M; FLETCHER J S
  Univ. Oklahoma, dep. botany microbiology, Norman OK, USA
  Journal: Biotechnology letters, 1982, 4 (12) 795-798
  Language: English
             (Item 15 from file: 144)
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  04780732
            PASCAL No.: 83-0021576
  Selective inhibition of separate esterases in rat and mouse liver
microsomes hydrolyzing malathion, transpermethrin, and cis-permethrin
  SODERLUND D M; ABDEL-AAL Y A I; HELMUTH D W
  Cornell univ., dep. entomol., Geneva NY 14456, USA
  Journal: Pestic. Biochem. Physiol., 1982, 17 (2) 162-169
  Language: English
             (Item 16 from file: 144)
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  04034474
            PASCAL No.: 75-0004668
  ORGANOPHOSPHATE SPLITTING SERUM ENZYMES IN DIFFERENT MAMMALS
  ZECH R; ZUERCHER K
  PHYSIOL.-CHEM. INST., UNIV., D-34 GOETTINGEN, FEDERAL REPUBLIC OF GERMANY
  Journal: COMP. BIOCHEM. PHYSIOL., B, 1974, 48 (3) 427-433
  Language: ENGLISH
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             (Item 17 from file: 144)
  02907571
            PASCAL No.: 80-0355640
  ENZYMATIC DETOXIFICATION OF WASTE ORGANOPHOSPHATE PESTICIDES
  MUNNECKE D M
  FORSCHUNGSANSTALT LANDWIRTSCHAFT, BRAUNSCHWEIG 3300, FEDERAL REPUBLIC OF
GERMANY
  Journal: J. AGRIC. FOOD CHEM., 1980, 28 (1) 105-111
  Language: ENGLISH
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             (Item 18 from file: 144)
  02358793 PASCAL No.: 79-0429467
  BIODEGRADATION OF PHOSPHONATE TOXICANTS YIELDS METHANE OR ETHANE ON
CLEAVAGE OF THE C-P BOND
  DAUGHTON C G; COOK A M; ALEXANDER M
  CORNELL UNIV. DEP. AGRON., ITHACA NY 14853, USA
  Journal: F.E.M.S. MICROBIOL. LETTERS, 1979, 5 (2) 91-93
  Language: ENGLISH
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             (Item 19 from file: 144)
  02321593
            PASCAL No.: 79-0345119
  IN VITRO METABOLISM OF ETRIMFOS BY RAT AND MOUSE LIVER
  IOANNOU Y M; DAUTERMAN W C
  NORTH CAROLINA STATE UNIV. DEP. ENTOMOL., RALEIGH NC 27650, USA
  Journal: PESTIC. BIOCHEM. PHYSIOL., 1978, 9 (2) 190-195
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Language: ENGLISH
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            (Item 20 from file: 144)
            PASCAL No.: 79-0281910
 02294712
 IN VITRO METABOLISM OF DESMETHYL TETRACH LORVINPHOS BY SOLUBLE FRACTION
(105000 G) FROM CHICKEN LIVER HOMOGENATES
 HUMAYOUN AKHTAR M
 AGRICULT. CANADA ANIMAL RESEARCH INST., OTTAWA ONT. K1A 0C6, CANADA
 Journal: J. AGRIC. FOOD CHEM., 1978, 26 (4) 932-935
 Language: ENGLISH
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  02238546 PASCAL No.: 79-0141914
  ZUR KINETIK DES PARAOXON-SPALTENDEN ENZYMS IM MENSCHLICHEN SERUM (EC
3.1.1.2
  (CINETIQUE DE L'ENZYME HYDROLYSANT LE PARAOXON DANS LE SERUM HUMAIN (EC
3.1.1.2))
 FLUGEL M; GELDMACHER-VON MALLINCKRODT M
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 Journal: KLIN. WSCHR., 1978, 56 (18) 911-916
 Language: GERMAN Summary Language: ENGLISH
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             (Item 22 from file: 144)
 01455465 PASCAL No.: 77-0104259
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PESTICIDE DISPOSAL METHOD.
 MUNNECKE D M
 INST. BODENBIOL., BRAUNSCHWEIG, FEDERAL REPUBLIC OF GERMANY
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 Language: ENGLISH
             (Item 23 from file: 144)
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  00964156
            PASCAL No.: 76-0114963
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  (L'HYDROLYSE ENZYMATIQUE DU MALAOXON PAR DES HOMOGENATS DE FOIE DE SOURIS
 BHAGWAT V M; RAMACHANDRAN B V
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 Journal: BIOCHEM. PHARMACOL., 1975, 24 (21) 2002-2003
 Language: ENGLISH
            (Item 24 from file: 144)
  00495330
            PASCAL No.: 74-0007186
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POPULATIONS OF MOSQUITOFISH (GAMBUSIA AFFINIS)
 CHAMBERS J E; YARBROUGH J D
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 Journal: PESTIC. BIOCHEM. PHYSIOL., 1973, 3 (3) 312-316
 Language: ENGLISH
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1728289 82002774134
  Interactive effects of pesticides in the hybrid red-legged partridge.
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Univ. Reading, Whiteknights, P.O. Box 228, Reading RG6 2AJ, UK
 FUNCT. ECOL.; 4(3), pp. 309-314 1990
 Language: English Summary Language: English
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 Language: English
                     Summary Language: English
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1225149 82001734276
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  Pesticide Degradation Lab., Agric. Res. Serv., US Dep. Agric.,
Beltsville, MD 20705, USA
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  Public Public Dy: AMERICAN CHEMICAL SOCIETY, WASHINGTON, DC (USA), 1987, pp.
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 Language: English
                     Summary Language: English
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1222893 82001729166
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methyl-phosphonofluoridate).
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 Inst. Pestic. Res., Marijkeweg 22, 6709 PG Wageningen, Netherlands
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                      Summary Language: English
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0969462 82001035853
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                      Summary Language: Chinese; English
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0933647 82000942108
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activities of some phosphatases and ATPases in the brain of Tilapia
mossambica
  Joshi, U.M.; Desai, A.K.
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 Language: English
                      Summary Language: English
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0824439 82000668120
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electrophoresis of homogenates of peach-potato aphids (Myzus persicae,
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  Dep. Insecticides and Fungicides, Rothamsted Exp. Stn., Harpenden,
Herts., AL5 2JQ, UK
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                     Summary Language: English
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0723072 82000414365
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Cibacron 3GA-Sepharose affinity chromatography.
 Pai, S.B.
 Natl. Inst. Environ. Health Sci., P.O. Box 12233, Research Triangle Park,
NC 27709, USA
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0660267 82000245089
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 Dep. Bot/Microbiol., Univ. Oklahoma, Norman, OK 73019, USA
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Sancassania berlesei (Tyroglyphidae) and Tetranychus urticae
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  (Toxicol. Program, Dep. Entomol., N. Carolina State Univ., Raleigh, NC
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                        Summary Language: English
 Language: English;
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2/3/170

(Item 14 from file: 76)

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8703 78031203965
  The breakdown of malathion in soil and soil components.;
 Gibson, W.P.; Burns, R.G.
  (Biol.Lab., Univ.Kent, Canterbury, Kent CT2 7NJ, UK)
 Microbateo1: ; 3(3), 219-230 1977;
 Language: English;
                        Summary Language: English
 2/3/171
             (Item 1 from file: 53)
  1504336 0E071-01596
   A carboxylesterase with broad substrate specificity causes
organophosphorus, carbamate and pyrethroid resistance in peach--potato
aphids (Myzus persicae).
   Devonshire, A. L.;
                      Moores, G. D.
   Department of Insecticides and Fungicides, Rothamsted Experimental
 Station, Harpenden, Herts., UK.
  Pesticide Biochemistry and Physiology 1982. 18 (2): 235-246 (37 ref.,
 3 fig.)
  Language: English
 2/3/172
             (Item 2 from file: 53)
  1500740 0E071-07686
  Pyrethroid synergism by esterase inhibition in Spodoptera littoralis
(Boisduval) larvae.
   Ishaaya, I.; Ascher, K. R. S.; Casida, J. E.
   Division of Entomology, The Volcani Center, ARO, Bet Dagan 50-250,
 Israel.
  Crop Protection 1983. 2 (3): 335-343 (16 ref., 4 fig.)
  Language: English
             (Item 3 from file: 53)
 2/3/173
  1342406 0E070-07317; 0J070-03514
  Effects of the fungicide IBP as a synergist on the metabolism of
malathion in insects.
  Yeoh, C. L.;
                 Kuwano, E.;
                               Eto, M.
  Department of Agricultural Chemistry, Kyushu University, Fukuoka 812,
Japan.
  Journal of Pesticide Science 1982. 7 (1): 31-40
                                                    (25 ref.)
  Language: English Summary Language: Japanese
             (Item 4 from file: 53)
 2/3/174
 1337585 0J070-01548
  Studies on the mechanisms of organophosphate resistance in oriental
houseflies, Musca domestica vicina Macquart (Diptera: Muscidae).
  Yeoh, C. L.; Kuwano, E.;
                              Eto, M.
  Department of Agricultural Chemistry, Kyushu University, Fukuoka 812,
  Applied Entomology and Zoology 1981.
                                         16 (3): 247-257 (31 ref., 1 fig.
  Language: English
2/3/175
            (Item 5 from file: 53)
 1335171 OE070-01459
  Mechanism of insecticide resistance in green rice leafhopper and
small brown planthopper.
  Hama, H.
  National Institute of Agricultural Sciences, Yatabe, Tsukuba, Ibaraki
305, Japan.
  Review of Plant Protection Research 1980. 13 54-73 (70 ref., 5 fig.)
  Language: English
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2/3/176 (Item 6 from file: 53) 1179545 0J069-01606 Multiple factors for organophosphorus resistance in the housefly, Musca domestica L. Motoyama, N.; Hayaoka, T.; Nomura, K.; Dauterman, W. C. Laboratory of Environmental Biology, Faculty of Horticulture, Chiba University, Matsudo, Chiba 271, Japan. Journal of Pesticide Science 1980. 5 (3): 393-402 (43 ref., 4 fig.) Language: English Summary Language: Japanese 2/3/177 (Item 7 from file: 53) 1176638 0E069-02234 Studies on mechanism of resistance to insecticides in the green rice leafhopper, Nephotettix cincticeps Uhler, with particular reference to reduced sensitivity of acetylcholinesterase. Hama, H. Bulletin of the National Institute of Agricultural Sciences, C 1980. ( No. 34): 75-138 (8 pp. ref., 37 fig.) Language: Japanese Summary Language: English 2/3/178 (Item 8 from file: 53) 1015991 0E068-04393 Degradation, non-enzymatic degradation and biological effectiveness of aqueous preparation of some organophosphorus insecticides. Proceedings of the Fourth Conference of Pest Control, September 30 -October 3, 1978. (Part I). El-Tantawy, M. A.; Guirguis, M. W.; Hussein, N. M. (Tantawy, M. A. El-) Faculty of Agriculture, Zagazig University, Egypt. Cairo, Egypt; Academy of Scientific Research and Technology and National Research Centre. 1978. 546-554 (11 ref.) Language: English (Item 9 from file: 53) 2/3/179 0526283 0S039-00377 Possible relationships between structure and mechanism of degradation of organophosphorus insecticides in the soil environment. Adamson, J.; Inch, T. D. Chemical Defence Establishment, Porton Down, Salisbury, Wilts., SP4 OJQ, UK. Proceedings, Seventh British Insecticide and Fungicide Conference, 1973, volume 1 1975. 65-72 Language: English Summary Language: French (Item 10 from file: 53) 2/3/180 0202281 0E062-03570 The biochemical bases for the selectivity of organophosphorus insecticides. Biochemiczne podstawy selektywnosci insektycydow fosforoorganicznych. Wegorek, W. (Editor): Papers presented at the 12th Scientific Session of the Institute for Plant Protection 3rd-5th February 1972.: Referaty wygloszone na XII Sesji Naukowej Instytutu Ochrony Roslin 3-5.II.1972 r. Palut, D.; Bojanowska, A. Biuletyn Instytutu Ochrony Roslin 1972. (No.52): 25-43 (27 ref., 4 Summary Language: Russian; English Language: Polish (Item 11 from file: 53) 2/3/181

0201924 0E062-01619

Factors influencing organophosphorus insecticide resistance in tobacco budworms. Bull, D. L.; Whitten, C. J. Entomology Research Division, ARS, USDA, College Station, Texas 77840, USA. Journal of Agricultural and Food Chemistry 1972. 20 (3): 561-564 (34 ref.) Language: English 2/3/182 (Item 12 from file: 53) 0153432 0S036-01811 Terminal residues of organophosphorus insecticides in soil and terminal residues of organophosphorus fumigants. "Pesticide Terminal Residues", International Symposium. International Union of Pure and Applied Chemistry, Tel-Aviv, 1971, A.S. Tahori (editor). Spencer, E. Y. Research Institute, Canada Department of Agriculture, University Sub Post Office, London 72, Ontario. London, UK, Butterworths. 1971. 3-8 Language: English 2/3/183 (Item 13 from file: 53) 0094129 0J061-01104 Biochemistry and structure of organophosphorus pesticides. Khan, M. A.; Haufe, W. O. (Editors): Toxicology, biodegradation efficacy of livestock pesticides. Proceedings of an Advanced Study Institute on Toxicity of Pesticides used on Livestock sponsored by the North Atlantic Treaty Organization and organized by the Research Station, Canada Department of Agriculture, Lethbridge, Alberta. Spencer, E. Y. Research Institute, Canada Department of Agriculture, University Sub Post Office, London 72, Ontario. Amsterdam, Netherlands, Swets & Zeitlinger. 1972. 23-42 (20 ref.) Language: English 2/3/184 (Item 14 from file: 53) 0067466 0I040-00000; 0V042-02075 Comparative inhibition of aliesterases and cholinesterase in rats fed eighteen organophosphorus insecticides. Mei-Quey Su; Kinoshita, F. K.; Frawley, J. P.; Dep. Pharmacology, Univ. Chicago, Illinois 60637. DuBois, K. P. Toxicology and Applied Pharmacology 1971. 20 (No.2): 241-249 Language: English 2/3/185 (Item 1 from file: 50) 1349948 0E080-10619 Influence of host plants on the susceptibility of Myzus persicae (Sulz.) to certain insecticides. Ambrose, H. J.; Regupathy, A. Department of Agricultural Entomology, Centre for Plant Protection Studies, Tamil Nadu Agricultural University, Coimbatore 641 003, India. Insect Science and its Application 1992. 13 (1): 79-86 (33 ref.) Language: English Summary Language: French 2/3/186 (Item 2 from file: 50) 1239102 0E080-02536; 0J080-01725

A study on the distributions of paraoxonase activity and the factors

affecting paraoxonase activity of a rural population. Song, J.; Park, H. B. Department of Preventive Medicine, College of Medicine, Hanyang University, Korea Republic. Korean Journal of Preventive Medicine 1990. 23 (2): 194-200 (15 ref.) Language: Korean Summary Language: English (Item 3 from file: 50) 2/3/187 1182872 OW040-03648; OE080-00127 Techniques for enhancing structural information from high-performance liquid chromatography/mass spectrometry. Pack, T.; Smith, C.; Swaisgood, H.; Chen, D. Voyksner, R.; Research Triangle Institute, P.O. Box 12194, Research Triangle Park, NC 27709, USA. ACS Symposium Series 1990. (No. 420): 14-39 (20 ref.) Language: English (Item 4 from file: 50) 2/3/188 Metabolism of fenitrothion, parathion and cyanophos by isolated salithion-degrading bacteria from soil. Itoh, K. Environmental Health Science Laboratory, Sumitomo Chemical Co., Ltd., Takatsukasa, Takarazuka 665, Japan. Journal of Pesticide Science 1991. 16 (1): 97-100 (24 ref.) Language: English Summary Language: Japanese 2/3/189 (Item 5 from file: 50) 1157036 0E079-07280 Detoxification of organophosphate pesticides using an immobilized phosphotriesterase from Pseudomonas diminuta. Caldwell, S. R.; Raushel, F. M. Department of Biochemistry & Biophysics, Texas A&M University, College Station, TX 77843, USA. Biotechnology and Bioengineering 1991. 37 (2): 103-109 (15 ref.) Language: English 27/37/190 (Item 6 from file: 50) 1092590 7L005-00688; 0E079-05201 Enzymatic hydrolysis of toxic organofluorophosphate compounds. Biotechnology and biodegradation [edited by Kamely, D.; Chakrabarty, A.; Omenn, G.S.]. Landis, W. G.; DeFrank, J. J. U.S. Army Chemical Research Development and Engineering Center, Aberdeen Proving Ground, MD 21010-5423, USA. Houston, TX, USA; Gulf Publishing Co. 183-201 (29 ref. Advances in Applied Biotechnology Series. Volume 4) Language: English 2/3/191 (Item 7 from file: 50) 1031739 0E078-10180; 0J079-02585 Degradation of pesticides, desiccation and defoliation, ACh-receptors as targets. Bowers, W. S.; Ebing, W.; Fukuto, T. R.; Martin, D.; Wegler, R.; Yamamoto, I. (Editors) Department of Entomology, College of Agriculture, University of Arizona, Tuscon, AZ 85721, USA.

1989. 256 pp. (many ref., In Chemistry of Plant Protection, No. 2)

Heidelberg, Germany; Springer-Verlag

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Language: English
             (Item 8 from file: 50)
 2/3/192
  0863288 0E077-05989
  The induction and the mechanism of SN72129 resistance in the diamondback
moth, Plutella xylostella (L.).
   Cheng, Y. E.; Kao, C. H.;
                                Lin, D. F.
   Dep. Applied Zool. TARI, Wufeng, Taichung 41301, Taiwan.
  Journal of Agricultural Research of China 1987. 36 (2): 228-236 (6
 ref.)
                      Summary Language: Chinese
  Language: English
             (Item 9 from file: 50)
 2/3/193
 0744817 0E076-06958; 0C058-08732
  Problems of control of insecticide-resistant Plutella xylostella.
  Cheng, E. Y.
  Dep. Applied Zool., Taiwan Agric. Res. Inst., Taiwan.
  Pesticide Science 1988. 23 (2): 177-188 (46 ref.)
  Language: English
            (Item 1 from file: 357)
 2/3/194
156129 DBA Accession No.: 93-14181
Purification of a nerve agent degrading enzyme from Alteromonas undina -
   organophosphorus-acid-anhydrolase purification for potential
    application in nerve gas degradation (conference abstract)
AUTHOR: Cheng T C; Harvey S; Stroup A
CORPORATE SOURCE: U.S. Army Chemical and Biological Defense Agency,
   Aberdeen Proving Ground, MD 21010, USA.
JOURNAL: Abstr.Gen.Meet.Am.Soc.Microbiol. (93 Meet.,) 1993 CODEN: 0005P
LANGUAGE: English
             (Item 2 from file: 357)
 2/3/195
155673 DBA Accession No.: 93-13725
Stereoselectivity of soman detoxification by
    organophosphorus-acid-anhydrases from Escherichia coli -
    anticholinesterase degradation using diisopropyl-fluorophosphatase
AUTHOR: Hoskin F C G; Gallo B J; Steeves D M; Walker J E
CORPORATE SOURCE: Biology Department, Illinois Institute of Technology,
    Chicago, IL 60616, USA.
JOURNAL: Chem.Biol.Interact. (87, 1-3, 269-78) 1993 CODEN: CBINA8
LANGUAGE: English
 2/3/196
            (Item 3 from file: 357)
155671 DBA Accession No.: 93-13723
Characterization of organophosphorus-hydrolases and the genetic
   manipulation of the phosphotriesterase from Pseudomonas diminuta - use
   of organophosphorus-hydrolase e.g. phosphotriesterase for
   anticholinesterase degradation and insecticide pesticide degradation
    for potential use in bioremediation
AUTHOR: Dave K I; Miller C E; +Wild J R
CORPORATE SOURCE: Department of Biochemistry and Biophysics, Texas A&M
    University, College Station, TX 77843-2128, USA.
JOURNAL: Chem. Biol. Interact. (87, 1-3, 55-68) 1993 CODEN: CBINA8
LANGUAGE: English
 2/3/197
             (Item 4 from file: 357)
150366 DBA Accession No.: 93-08418
Biochemical demilitarization of chemical warfare agents - nerve gas
    degradation and mustard gas degradation (conference abstract)
AUTHOR: DeFrank J J; Harvey S P
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CORPORATE SOURCE: U.S. Army Chemical Research, Development and Engineering Center, Aberdeen Proving Ground, Maryland 21010-5423, USA. JOURNAL: J.Cell.Biochem. (Suppl.17C, 187) 1993 CODEN: JCEBD5 LANGUAGE: English (Item 5 from file: 357) 2/3/198 148597 DBA Accession No.: 93-06649 Biodegradation of pesticides with reversed micelles - organophosphorous pesticide degradation by phosphotriesterase in reversed micelle; new reactor design (conference abstract) AUTHOR: Komives C; Russell A J CORPORATE SOURCE: University of Pittsburgh, Pittsburgh, PA 15261, USA. JOURNAL: Abstr.Pap.Am.Chem.Soc. (205 Meet., Pt.1, BIOT87) 1993 CODEN: ACSRAL LANGUAGE: English 2/3/199 (Item 6 from file: 357) 144326 DBA Accession No.: 93-02378 Towards catalytic antibodies for the degradation of toxic agents catalytic antibody construction for potential bioremediation or organophosphorus intoxication prevention or therapy; review (conference paper) AUTHOR: Green B S; Glikson M CORPORATE SOURCE: The Hebrew University, Faculty of Medicine, School of Pharmacy, Department of Pharmaceutical Chemistry, P.O. Box 12065, Jerusalem 91120, Israel. JOURNAL: Biotechnol.Bridging Res.Appl. (249-64) 1991 CODEN: 9999X LANGUAGE: English 2/3/200 (Item 7 from file: 357) 141637 DBA Accession No.: 92-14129 Organophosphorus cholinesterase-inhibitors: detoxification by microbial enzymes - anticholinesterase insecticide pesticide degradation using organophosphorus-anhydrase, e.g. parathion-hydrolase (conference paper) AUTHOR: DeFrank J J CORPORATE SOURCE: Biotechnology Division, U.S. Army Chemical Research, Development & Engineering Center, Aberdeen Proving Ground, Maryland 21010-5423, USA. JOURNAL: Appl.Enzyme Biotechnol. (165-80) 1991 CODEN: 9999Y LANGUAGE: English 2/3/201 (Item 8 from file: 357) 129274 DBA Accession No.: 92-01766 PATENT Polymeric hydrogel with covalently immobilized cholinesterase - has increased resistance to action of organophosphoric substance PATENT ASSIGNEE: Moscow-State-Univ.; Inst.Petrochem.Synth. PATENT NUMBER: SU 1634672 PATENT DATE: 910315 WPI ACCESSION NO.: 91-345295 (9147) PRIORITY APPLIC. NO.: SU 3663300 APPLIC. DATE: 890317 NATIONAL APPLIC. NO.: SU 3663300 APPLIC. DATE: 890317 LANGUAGE: Russian 2/3/202 (Item 9 from file: 357) 110012 DBA Accession No.: 90-12703 OPA-anhydrase synthesis by the protozoon Tetrahymena thermophila - soman degradation and DFP degradation (conference abstract) AUTHOR: Gallo B; Walker J; Hoskin F C G CORPORATE SOURCE: The U.S. Army Natick Research, Development and Engineering Center, Natick, MA, USA. JOURNAL: Abstr.Annu.Meet.Am.Soc.Microbiol. (90 Meet., 274) 1990 CODEN:

0005M

LANGUAGE: English

2/3/203 (Item 10 from file: 357)

104278 DBA Accession No.: 90-06969 PATENT

<u>Production of parathion-hydrolase - DNA sequence; gene cloning and</u> expression in e.g. Escherichia coli; purification without surfactant; application in anticholinesterase e.g. DFP, Sarin or Soman pesticide degradation

PATENT ASSIGNEE: Amgen 1990

PATENT NUMBER: WO 9002177 PATENT DATE: 900308 WPI ACCESSION NO.:

90-099401 (9013)

PRIORITY APPLIC. NO.: US 312503 APPLIC. DATE: 890217

NATIONAL APPLIC. NO.: WO 89US3721 APPLIC. DATE: 890825

LANGUAGE: English

2/3/204 (Item 11 from file: 357)

091000 DBA Accession No.: 89-08991

Structure-activity relationships in the hydrolysis of substrates by the phosphotriesterase from Pseudomonas diminuta - application in paraoxon, parathion, insecticide degradation; waste-disposal

AUTHOR: Donarski W J; Dumas D P; Heitmeyer D P; Lewis V E; +Raushel F M CORPORATE SOURCE: Department of Chemistry, Texas A+M University, College Station, Texas 77843, USA.

JOURNAL: Biochemistry (28, 11, 4650-55) 1989 CODEN: BICHAW

LANGUAGE: English

2/3/205 (Item 12 from file: 357)

090670 DBA Accession No.: 89-08661

Manipulation of enzyme systems in the biodegradation of hazardous waste site chemicals - waste-disposal (conference abstract)

AUTHOR: Wild J R

CORPORATE SOURCE: Department of Biochemistry and Biophysics, Texas A&M University System, College Station, Texas 77843-2128, USA.

JOURNAL: Abstr.Pap.Am.Chem.Soc. (197 Meet., MBTD29) 1989 CODEN: ACSRAL LANGUAGE: English

2/3/206 (Item 13 from file: 357) 080449 DBA Accession No.: 88-11298

The molecular biology of the plasmid-borne opd gene - organophosphorus detoxification gene located in plasmid of Pseudomonas diminuta, Flavobacterium (conference abstract)

AUTHOR: McDaniel C S; Harper L L; LeBlanc S T; Miller C E; Wild J R CORPORATE SOURCE: Department of Biochemistry and Biophysics, Texas A and M University, College Station, Texas 77843, USA.

JOURNAL: Abstr.Annu.Meet.Am.Soc.Microbiol. (88 Meet., 301) 1988 CODEN: 0005M

LANGUAGE: English

2/3/207 (Item 14 from file: 357)

076189 DBA Accession No.: 88-07038

Cloning and sequencing of a plasmid-borne gene (opd) encoding a phosphotriesterase - potential organophosphorus pesticide degradation

AUTHOR: McDaniel C S; Harper L L; +Wild J R

CORPORATE SOURCE: Department of Biochemistry and Biophysics, Texas A & M University, College Station, Texas 77843, USA.

JOURNAL: J.Bacteriol. (170, 5, 2306-11) 1988 CODEN: JOBAAY

LÄNGUAGE: English

2/3/208 (Item 1 from file: 161)

0167055 NIOSH-00199004

A Microassay Method for Neurotoxic Esterase Determinations

Correll, L., and M. Ehrich

Fundamental and Applied Toxicology, Vol. 16, No. 1, pages 110-116, 20 references January 1991 CODEN: FAATDF

2/3/209 (Item 2 from file: 161)

0124524 NIOSH-00163867

Acute Effects of Soman, Sarin, and Tabun on Cyclic Nucleotide Metabolism in Rat Striatum

Liu, D-D., H. K. Watanabe, I. K. Ho, and B. Hoskins

Journal of Toxicology and Environmental Health, Vol. 19, No. 1, pages 23-32, 34 references September 1986 CODEN: JTEHD6

2/3/210 (Item 3 from file: 161)

0123093 NIOSH-00160690

Metabolism Of Insecticides In Plants And Animals

Fukuto, T. R., and R. L. Metcalf

Annals of the New York Academy of Sciences, Vol. 160, No. 1, pages 97-111, 80 references June 23,1969

2/3/211 (Item 4 from file: 161)

0121803 NIOSH-00152899

Studies On L-Ascorbic Acid Metabolism In Rats Under Chronic Toxicity Due To Organophosphorus Insecticides: Effects Of Supplementation Of L-Ascorbic Acid In High Doses

Chakraborty, D., A. Bhattacharyya, K. Majumdar, K. Chatterjee, S. Chatterjee, A. Sen, and G. C. Chatterjee

Journal of Nutrition, Vol. 108, No. 6, pages 973-980, 25 references October 26,1977

2/3/212 (Item 5 from file: 161)

0117071 NIOSH-00155310

The Metabolism Of Insecticides In Man

Hutson, D. H.

Progress in Pesticide Biochemistry, Vol. 1, pages 287-333, 151 references 1981

2/3/213 (Item 6 from file: 161)

0111841 NIOSH-00151071

Recognition And Overview Of The Organophosphorus Induced Delayed Neurotoxicity Problem

Casida, J. E., and R. L. Baron

Pesticide Induced Delayed Neurotoxicity, Proceedings of a Conference Held in Washington, D.C., on February 19-20, 1976, NTIS PB-256-416, pages 7-23, 17 references February 19,1976

REPORT NO.: PB-256-416

2/3/214 (Item 7 from file: 161)

0082864 NIOSH-00122213

Factors Modifying the Toxicity of Organophosphorus Compounds Including Soman and Sarin

Fonnum, F., and S. H. Sterri

Fundamental and Applied Toxicology, Vol. 1, No. 2, pages 143-147, 9 references April 1981

2/3/215 (Item 8 from file: 161)

0042303 NIOSH-00046947

Chemical and Biochemical Methology for the Assessment of Hazards of Pesticides for Man

Anonymous World Health Organization Technical Report Series, No. 560, 26 pages, 48 references 1975 2/3/216 (Item 9 from file: 161) 0037894 NIOSH-00037728 Chemistry and Mode of Action of Organophosphorus Insecticides Spencer, E. Y., and R. D. O'Brien Annual Review of Entomology, Vol. 2, Nos. 3-11, pages 261-278, 104 references 1957 2/3/217 (Item 10 from file: 161) NIOSH-00045456 0036686 Insecticide Biochemistry Casida, J. E. Annual Review of Biochemistry, Vol. 42, pages 259-278, 138 references 1973 (Item 11 from file: 161) 2/3/218 NIOSH-00006565 0010844 Antagonistic Actions of Synergistic and Insecticide-Synergist Combinations and Their Mode of Action Sun, Y. P., and E. R. Johnson Agricultural and Food Chemistry, Vol. 8, No. 4, pages 261-266, 12 references August 1960 (Item 1 from file: 434) 2/3/219 11636387 Genuine Article#: HZ170 No. References: 34 Title: SOLID-STATE P-31 MAS NMR-STUDY OF THE DISTRIBUTION AND REACTION OF ORGANOPHOSPHORUS ESTERS ADSORBED ON SYNTHETIC RESIN CATALYSTS Author(s): BEAUDRY WT; WAGNER GW; WARD JR Corporate Source: USA, CTR CHEM RES DEV & ENGN, RES DIRECTORATE/ABERDEEN PROVING GROUND//MD/21010 Journal: JOURNAL OF MOLECULAR CATALYSIS, 1992, V73, N1 (APR), P77-90 Language: ENGLISH Document Type: ARTICLE (Abstract Available) (Item 2 from file: 434) 2/3/220 Genuine Article#: GP671 No. References: 22 11192381 Title: ORGANOPHOSPHATES BIODEGRADATION IN ANAEROBIC MEDIA BY IMMOBILIZED ENZYMATIC-ACTIVITY Author(s): HADDANE M; RAMBAUD A; COLETTIPREVIERO MA Corporate Source: INSERM, U58, RUE NAVACELLES/F-34100 MONTPELLIER//FRANCE/; INSERM, U58, RUE NAVACELLES/F-34100 MONTPELLIER//FRANCE/; FAC PHARM MONTPELLIER, DEPT SCI ENVIRONMEMENT & SANTE PUBL/F-34060 MONTPELLIER//FRANCE/ Journal: ENVIRONMENTAL TECHNOLOGY, 1991, V12, N10, P887-896 Language: ENGLISH Document Type: ARTICLE (Abstract Available) 2/3/221 (Item 3 from file: 434) 11049938 Genuine Article#: GC353 No. References: 25 Title: MODE OF ACTION OF SALIGENIN CYCLIC PHOSPHATES ON ORGANOPHOSPHATE-RESISTANT HOUSEFLIES Author(s): SHIOTSUKI T Corporate Source: KYUSHU UNIV, DEPT AGR CHEM, HIGASHI KU/FUKUOKA 812//JAPAN/ Journal: JOURNAL OF PESTICIDE SCIENCE, 1991, V16, N3, P523-531 Language: JAPANESE Document Type: ARTICLE (Abstract Available) (Item 1 from file: 6) 2/3/222

1455496 NTIS Accession Number: AD-A218 848/0/XAB

Genetic

and Biochemical Characterization

Manipulation

of

and

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Plasmid-borne, Broad-spectrum Organophosphate Hydrolases from Soil Bacteria
  (Final rept. 18 Dec 86-18 Dec 89)
 Wild, J. R.
 Texas A and M Research Foundation, College Station.
 Corp. Source Codes: 015059000; 347320
 Sponsor: Army Research Office, Research Triangle Park, NC.
 Report No.: ARO-24002.4-LS
 Feb 90
          5p
 Languages: English
 Journal Announcement: GRAI9013
 NTIS Prices: PC A01/MF A01
             (Item 1 from file: 10)
 2/3/223
91121809 93054120 Holding Library: AGL
 p-Nitrophenylacetate hydrolysis by honey bee esterases: kinetics and
 Spoonamore, J.E.; Frohlich, D.R.; Wells, M.A.
 Xenobiotica. Mar 1993. v. 23 (3) p. 279-284.
 London: Taylor & Francis. ISSN: 0049-8254 CODEN: XENOB
 DNAL CALL NO: QD415.A1X4
 Language: English
            (Item 2 from file: 10)
 2/3/224
91058298 93003966 Holding Library: AGL
 Detection and biochemical characterization of insecticide resistance in
the diamondback moth
 Yu, S.J.; Nguyen, S.N.
 University of Florida, Gainesville, FL
 Pesticide biochemistry and physiology. Sept 1992. v. 44 (1) p. 74-81.
 Orlando, Fla.: Academic Press. ISSN: 0048-3575 CODEN: PCBPB
 DNAL CALL NO: SB951.P49
 Language: English
             (Item 3 from file: 10)
91053231 93000875 Holding Library: AGL
 Activities of phosphomonoesterase and phosphodiesterase from Lumbricus
terrestris
 Park, S.C.; Smith, T.J.; Bisesi, M.S.
 Indiana State University, Terre Haute, IN
 Soil biology and biochemistry. Sept 1992. v. 24 (9) p. 873-876.
 Exeter: Pergamon Press.
                            ISSN: 0038-0717 CODEN: SBIOAH
 DNAL CALL NO: S592.7.A1S6
 Language: English
 2/3/226
             (Item 4 from file: 10)
91040459 92070222 Holding Library: AGL
 Herbicide-insecticide interaction in maize: malathion inhibits cytochrome
P450-dependent primisulfuron metabolism
 Kreuz, K.; Fonne-Pfister, R.
 CIBA-GEIGY Limited, Basle, Switzerland
 Pesticide biochemistry and physiology. July 1992. v. 43 (3) p. 232-240.
 Orlando, Fla.: Academic Press. ISSN: 0048-3575 CODEN: PCBPB
 DNAL CALL NO: SB951.P49
 Language: English
 2/3/227
            (Item 5 from file: 10)
91040458 92070221 Holding Library: AGL
 Significance of carboxylesterases and insensitive acetylcholinesterase in
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conferring organophosphate resistance in Lygus hesperus populations

Zhu, K.Y.; Brindley, W.A.

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University of Massachusetts, Amherst, MA
   Pesticide biochemistry and physiology. July 1992. v. 43 (3) p. 223-231.
   Orlando, Fla.: Academic Press. ISSN: 0048-3575 CODEN: PCBPB
   DNAL CALL NO: SB951.P49
   Language: English
             (Item 6 from file: 10)
  2/3/228
 90018271 91011170 Holding Library: AGL
   Insecticide resistance in the fall armyworm, Spodoptera frugiperda (J.E.
 Smith)
   Yu, S.J.;
   University of Florida, Gainesville, FL
   Pesticide biochemistry and physiology. Jan 1991. v. 39 (1) p. 84-91.
   Duluth, Minn.: Academic Press. ISSN: 0048-3575 CODEN: PCBPB
   DNAL CALL NO: SB951.P49
   Language: English
              (Item 7 from file: 10)
 84056431 83098389 Holding Library: AGL
   Montmorillonite--catalyzed hydrolysis of phosmet (Organophosphorus
 pesticides, degradation)
   Sanchez Camazano, M. SOSCA; Sanchez Martin, M.J.
   Soil science. v. 136 (2) , Aug 1983. p. 89-93.
   Baltimore: , Williams & Wilkins. ISSN: 0038-075X
   NAL: 56.8 SO3
   Language: English
            (Item 1 from file: 399)
  2/3/230
   118083339 CA: 118(10)83339w PATENT
   Enzyme detergent formulation and methods of detoxifying toxic
 organophosphorus acid compounds
                                            Wrong engine.
   INVENTOR(AUTHOR): Akkara, Joseph A.; Kaplan, David L!; Kaplan, Arthur M.
   LOCATION: USA
   ASSIGNEE: United States Dept. of the Army
   PATENT: United States; US 5169554 A DATE: 921208
   APPLICATION: US 417614 (891004)
   PAGES: 10 pp. CODEN: USXXAM LANGUAGE: English CLASS: 252174120;
 C11D-017/00A; C11D-007/06B; C11D-007/12B
Copyright 1993 by the American Chemical Society
             (Item 2 from file: 399)
  2/3/231
               CA: 111(24)219332d PATENT
   Enzymes and receptors on membranes for the inactivation of toxic
 materials
   INVENTOR(AUTHOR): Taylor, Richard F.
   LOCATION: USA
   ASSIGNEE: Little, Arthur D., Inc.
   PATENT: PCT International; WO 8902920 A1 DATE: 890406
   APPLICATION: WO 88US3422 (881004) *US 105312 (871005)
   PAGES: 57 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12N-011/18A;
 A61L-015/00B DESIGNATED COUNTRIES: JP DESIGNATED REGIONAL: AT; BE; CH; DE
  ; FR; GB; IT; LU; NL; SE
 Copyright 1993 by the American Chemical Society
              (Item 3 from file: 399)
  2/3/232
                CA: 109(17)149639s
                                     JOURNAL
   109149639
   Photocatalytic degradation of organophosphorus compounds in semiconductor
```

suspension

AUTHOR(S): Harada, K.; Hisanaga, T.; Tanaka, K. LOCATION: Natl. Chem. Lab. Ind., Yatabe, Japan, JOURNAL: New J. Chem. DATE: 1987 VOLUME: 11 NUMBER: 8-9 PAGES: 597-600 CODEN: NJCHE5 LANGUAGE: English Copyright 1993 by the American Chemical Society (Item 4 from file: 399) 2/3/233 108137493 CA: 108(16)137493f JOURNAL Degradation of organophosphoric acid triesters by the bacteria in the river water (II). Properties of TBP (tributyl phosphate) degrading bacteria and their enzymes AUTHOR(S): Kawai, Shin'ichiro; Fukushima, Minoru; Kitano, Masaaki; Nishio, Takayuki; Morishita, Hideki LOCATION: Osaka City Inst. Public Health and Environ. Sci., Osaka, Japan, JOURNAL: Annu. Rep. Osaka City Inst. Public Health Environ. Sci. DATE: 1986 VOLUME: 49, PAGES: 160-6 CODEN: AOISDR ISSN: 0285-5801 LANGUAGE: English Copyright 1993 by the American Chemical Society 2/3/234 (Item 5 from file: 399) CA: 98(15)123097t JOURNAL Detoxification enzyme differences between a herbivorous and predatory mite AUTHOR(S): Mullin, C. A.; Croft, B. A.; Strickler, K.; Matsumura, F.; Miller, J. R. LOCATION: Pesticide Res. Cent., Michigan State Univ., East Lansing, MI, 48824, USA JOURNAL: Science (Washington, D. C., 1883-) DATE: 1982 VOLUME: 217 NUMBER: 4566 PAGES: 1270-2 CODEN: SCIEAS ISSN: 0036-8075 LANGUAGE: English Copyright 1993 by the American Chemical Society 2/3/235 (Item 1 from file: 35) 01212575 ORDER NO: AAD92-05040 BEHAVIOR, FATE AND INTERACTION OF ATRAZINE AND TERBUFOS IN SOILS Author: CARAZO, ELIZABETH Degree: PH.D. Year: 1991 Corporate Source/Institution: UNIVERSITY OF MARYLAND (0117) Source: VOLUME 52/11-B OF DISSERTATION ABSTRACTS INTERNATIONAL. PAGE 5636. 172 PAGES 2/3/236 (Item 2 from file: 35) 01173379 ORDER NO: AADDX-92871 THE METABOLISM OF CARBOFURAN IN ACTIVE SOILS AND ITS RESPONSE TO ENZYME INHIBITORS TALEBI, KHALIL Author: Degree: PH.D. Year: 1989 Corporate Source/Institution: UNIVERSITY OF READING (UNITED KINGDOM) ( VOLUME 52/04-B OF DISSERTATION ABSTRACTS INTERNATIONAL. Source: PAGE 1789. 247 PAGES

(Item 3 from file: 35)

01135258 ORDER NO: AAD90-34716

2/3/237

ORGANOPHOSPHORUS TOXICITY: FURTHER STUDIES ON THE CENTRAL NEUROTOXICITY OF SOMAN IN THE RAT

Author: JIMMERSON, VERNON ROBERT

Degree: PH.D. Year: 1990

Corporate Source/Institution: THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL

HILL (0153)

Source: VOLUME 51/07-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 3264. 172 PAGES

2/3/238 (Item 4 from file: 35)

1084874 ORDER NO: AAD90-02620

PURIFICATION, CHARACTERIZATION, AND KINETIC STUDIES OF A WILD- AND AN INSECTICIDE-INSENSITIVE ACETYLCHOLINESTERASE FROM MOSQUITO (CULEX SPP.)

Author: DARY, OMAR

Degree: PH.D. Year: 1989

Corporate Source/Institution: UNIVERSITY OF CALIFORNIA, RIVERSIDE (0032)

Source: VOLUME 50/08-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 3447. 331 PAGES

2/3/239 (Item 5 from file: 35)

0996581 ORDER NO: NOT AVAILABLE FROM UNIVERSITY MICROFILMS INT'L. KINETIC STUDIES ON THE PREFORMULATION AND FORMULATION OF PARENTERAL SOLUTIONS (OXIMES, ANTIDOTES, OXIDATION)

Author: FYHR, PETER JAN

Degree: FARM Year: 1987

Corporate Source/Institution: UPPSALA UNIVERSITET (SWEDEN) (0903) Source: VOLUME 49/01-C OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 108. 44 PAGES

ISBN: 91-554-2062-1

Publisher: ALMQVIST & WIKSELL INTERNATIONAL, STOCKHOLM, SWEDEN

2/3/240 (Item 6 from file: 35)

0984097 ORDER NO: AAD88-03898

INHERITANCE AND MECHANISMS OF PERMETHRIN RESISTANCE IN THE TOBACCO BUDWORM, HELIOTHIS VIRESCENS (LEPIDOPTERA: NOCTUIDAE)

Author: PAYNE, GREGORY TERRELL

Degree: PH.D Year: 1987

Corporate Source/Institution: CLEMSON UNIVERSITY (0050)

Source: VOLUME 49/01-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 0034. 120 PAGES

2/3/241 (Item 7 from file: 35)

868563 ORDER NO: AAD84-29028

STUDIES ON THE IN VITRO METABOLISM OF MALATHION HOMOLOGS BY RABBIT LIVER CARBOXYLESTERASES AND THE INHIBITION OF CARBOXYLESTERASES BY ORGANOPHOSPHORUS IMPURITIES FOUND IN TECHNICAL MALATHION (CARBOXYLESTERASE, MALATHION, IMPURITIES)

Author: LIN, PAUL TZONGPAI

Degree: PH.D. Year: 1984

Corporate Source/Institution: NORTH CAROLINA STATE UNIVERSITY AT RALEIGH (0155)

Source: VOLUME 45/10-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 3197. 88 PAGES

2/3/242 (Item 8 from file: 35)

```
844826 ORDER NO: AAD84-12112
PARAOXONASE AND PARAOXON DETOXIFICATION (PHARMACOKINETICS)
  Author: BUTLER, EDWARD GRANT
  Degree: PH.D.
  Year:
          1984
  Corporate Source/Institution: THE UNIVERSITY OF MICHIGAN (0127)
  Source: VOLUME 45/02-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
           PAGE 522. 111 PAGES
             (Item 9 from file: 35)
 2/3/243
804742 ORDER NO: AAD83-05544
DETERMINATION OF ORGANOPHOSPHORUS COMPOUNDS BY HPLC WITH POST-COLUMN
PHOTOCHEMICAL DEGRADATION FOLLOWED BY THE FORMATION OF REDUCED
HETEROPOLYMOLYBDATE
  Author: PRIEBE, STEPHEN ROY
  Degree: PH.D.
  Year:
          1982
  Corporate Source/Institution: WESTERN MICHIGAN UNIVERSITY (0257)
  Source: VOLUME 43/10-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
           PAGE 3230. 114 PAGES
 2/3/244
            (Item 1 from file: 41)
055231 78-04420
  Fixation et activites intracellulaires des polluants. (Intracellular
fixation and activity of pollutants).
  Gastaud, J. M.
  Centre Scientifique, Fondation du Prince Rainier, Monaco.
  7e colloque international d'oceanographie medicale
                                                          Nice, Fr.
                                                                        Oct.
3-7, 1977
  Actes du 7e colloque international d'oceanographie medicale. (Proceedings
of the seventh international medical oceanography colloquium). Edited by M.
Aubert and M. Gauthier. In REVUE INTERNATIONALE OCEANOGRAPHIE MEDICALE
                 Publ.Yr: 1978 Coden: RVOMAY
49(3),
       5-11,
  illus. refs.
  abs.
 2/3/245
            (Item 1 from file: 40)
00108757 ENVIROLINE NUMBER: 82-01535
Persistence of Organophosphorus Insecticides in Sewage Sludges
McIntyre, A.E., Imperial College, London; Lester, J.N.; Perry, R.
JOURNAL: Env Technology Letters v2, p111(8)
PUBLICATION DATE: 1981
            (Item 1 from file: 44)
 2/3/246
0091433 111-14417
  Metabolism of organophosphorus insecticides in aquatic organisms, with
special emphasis on fenitrothion. Presented at: 176. Meet. American
Chemical Society, Pesticide Chemistry Division Miami Beach, FL (USA) 11 Sep
1978.}
  Miyamoto, J.;
                 Takimoto, Y.; Mihara, K.
  Sumitomo Chemical Co. Ltd., Res. Dep., Hyogo 665, Japan
  , (no. 99)
  ACS Symp. Ser.
  In: Pesticide and xenobiotic metabolism in aquatic organisms. Based on a
symposium sponsored by the Division of Pesticide Chemistry at the 176 Meeting of the American Chemical Society, Miami Beach, Florida, September
11-17, 1978.
  CONFERENCE LOCATION: Miami Beach, FL (USA)
                                               CONFERENCE YEAR: 1978
  Khan,M.A.Q.; Lech,J.J.; Menn,J.J. eds.).
  , } American Chemical Society Washington, DC (USA)., 1979.
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(Item 1 from file: 70) 2/3/247

00603230 SEDBASE No.: 00145700 Line Count: 89

Number of Cited Reference: 15

Drug Name: LAUDANOSINE

Drug Classification: 13.02

Effect Interaction Name: CONVULSION (ANIMAL STUDY)

Effect Classification Code: 14.02

Synonym(s) for Effect Name: MUSCLE SPASM

Side Effects of Drugs Annual-10,109

Meyler's Side Effect of Drugs SED text, 13.02.80

2/3/248 (Item 2 from file: 70)

00603229 SEDBASE No.: 00145683 Line Count: 89

Number of Cited Reference: 15

Drug Name: LAUDANOSINE

Drug Classification: 13.02

Effect Interaction Name: CENTRAL NERVOUS SYSTEM STIMULATION

Effect Classification Code: 14.02

Synonym(s) for Effect Name: NEUROTOXICITY

Side Effects of Drugs Annual-10,109

Meyler's Side Effect of Drugs SED text, 13.02.80

2/3/249 (Item 3 from file: 70)

00603228 SEDBASE No.: 00145666 Line Count: 37

Number of Cited Reference: 15

Drug Name: QUATERNARY MONO ACRYLATE

Drug Classification: 13.02

Effect Interaction Name: DRUG TOXICITY

Effect Classification Code: 19.01.19

Meyler's Side Effect of Drugs SED text, 13.02.80

(Item 4 from file: 70) 2/3/250

00603226 SEDBASE No.: 00145646 Line Count: 98

Number of Cited Reference: 15

Drug Name: LAUDANOSINE

Drug Classification: 13.02

Effect Interaction Name: DRUG ACCUMULATION

Effect Classification Code: 19.06

FACTORS OF INFLUENCE: PROLONGED INFUSION; REPEATED DOSING; LIVER DISEASE; KIDNEY FAILURE

Side Effects of Drugs Annual-10,109; Side Effects of Drugs Annual-9,110

Meyler's Side Effect of Drugs SED text, 13.02.80

(Item 5 from file: 70) 2/3/251

00603095 SEDBASE No.: 00145034 Line Count: 98

Number of Cited Reference: 15 Drug Name: ATRACURIUM BESILATE

Drug Classification: 13.02

Effect Interaction Name: DRUG ACCUMULATION

Effect Classification Code: 19.06

FACTORS OF INFLUENCE: PROLONGED INFUSION; REPEATED DOSING; LIVER DISEASE;

KIDNEY FAILURE

Side Effects of Drugs Annual-10,109; Side Effects of Drugs Annual-9,110 Meyler's Side Effect of Drugs SED text, 13.02.80 (Item 6 from file: 70) 00603094 SEDBASE No.: 00145016 Line Count: 101 Number of Cited Reference: 15 Drug Name: LAUDANOSINE Drug Classification: 13.02 Interacting Drug Name: HALOTHANE Interacting Drug Classification Code: 11.01.02 Effect Interaction Name: MAXIMUM ALLOWABLE CONCENTRATION INCREASE (ANIMAL STUDY) Effect Classification Code: 19.06 Synonym(s) for Effect Name: DRUG TOLERANCE Side Effects of Drugs Annual-10,109; Side Effects of Drugs Annual-9,110 Meyler's Side Effect of Drugs SED text, 13.02.80 (Item 1 from file: 8) 2/3/253 E.I. Monthly No: EIM9204-020653 03417622 Title: Mechanism of selective toxicity of diazinon to killifish (Oryzias latipes) and loach (Misgurnus anguillicaudatus). Author: Oh, Hye Sun; Lee, Sung Kyu; Kim, Young-Hwa; Roh, Jung Koo Corporate Source: Korea Research Inst of Chemical Technology, Dae Jeon, Korea Conference Title: 14th Symposium on Aquatic Toxicology and Risk Assessment Conference Location: San Francisco, CA, USA Conference Date: 1990 Apr 22-24 E.I. Conference No.: 16033 Source: ASTM Special Technical Publication n 1124. Publ by ASTM, Philadelphia, PA, USA. p 343-353 Publication Year: 1991 CODEN: ASTTA8 Language: English (Item 2 from file: 8) 2/3/254 E.I. Monthly No: EI9012145485 02991710 Title: Decomposition of organophosphorus compounds on photoactivitated TiO//2 surfaces. Author: Gratzel, Carole K.; Jirousek, Marie; Gratzel, Michael Corporate Source: Ecole Polytechnique Federale de Lausanne, Lausanne, Switz Source: Journal of Molecular Catalysis v 60 n 3 Jul 1 1990 p 375-387 Publication Year: 1990 ISSN: 0304-5102 CODEN: JMCADS Language: English 2/3/255 (Item 3 from file: 8) 02950669 E.I. Monthly No: EI9009104008 Title: Mechanism of flame-retardant action of tris(2,3-dichloropropyl) phosphate on epoxy resin. Author: Li, Jianzong; Chen, Shiyuan; Xu, Xiaoming Corporate Source: Hubei Univ, Wuhan, China Source: Journal of Applied Polymer Science v 40 n 3-4 Aug 5-Aug 20 1990 p 417-426 Publication Year: 1990

CODEN: JAPNAB ISSN: 0021-8995

Language: English

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2/3/256
             (Item 4 from file: 8)
00977629 E.I. Monthly No: EI8101006246 E.I. Yearly No: EI81069577
 Title: INHIBITION OF SHEEP LIVER ARGINASE BY MALATHION.
 Author: Mohananchari, V.; Neeraja, P.; Indira, K.; Swami, K. S.
 Corporate Source: Sri Venkateswara Univ, Tirupati, India
 Source: Bulletin of Environmental Contamination and Toxicology v 24 n 6
Jun 1980 p 875-878
 Publication Year: 1980
 CODEN: BECTA6
                 ISSN: 0007-4861
 Language: ENGLISH
             (Item 5 from file: 8)
 2/3/257
         E.I. Monthly No: EI72X040338
00236311
  Title: Enzymatic detoxification of the organophosphorus insecticide
phosdrin.
 Author: CORNETTE, J. C.; AGERTON, B. M.; WOLVERTON, B. C.
 Source: Am Chem Soc, Div Water, Air and Waste Chem, Prepr v 11 n 2 for
meeting Washington, DC, Sept 12-17 1971 p 95
 Publication Year: 1971
 Language: ENGLISH
2/3/258
             (Item 1 from file: 103)
03109953
          EDB-91-047386
Title: Detoxification of organophosphorus pesticide solutions with an
    immobilized enzyme system
Author(s): Havens, P.L.; Rase, H.F. (Univ. of Texas, Austin (USA))
Title: Emerging technologies for hazardous waste treatment
Conference Title: American Chemical Society (ACS) symposium on emerging
   technologies for hazardous waste treatment
Conference Location: Atlantic City, NJ (USA)
                                               Conference Date: 4-7 Jun
   1990
                                American Chemical Society
Publisher: Washington, DC (US)
Publication Date: 1990
                        p 14
                                  (26 p)
Report Number(s):
                    CONF-9006139--
Language: In English
            (Item 2 from file: 103)
2/3/259
          AIX-12-631799; ERA-07-002247; EDB-82-003638
00828802
Title: Investigation of pesticide degradation in surface waters
Author(s): Horvath, L. (Magyar Tudomanyos Akademia Izotop Intezete,
   Budapest)
Title: Proceedings of the second Hungarian symposium on radiochemistry held
   at Kossuth Lajos University, Debrecen, Nov 3-5, 1980
Conference Title: 2. Hungarian symposium on radiochemistry
Conference Location: Debrecen, Hungary Conference Date: 3 Nov 1980
Publication Date: 1980
                         p 88-90
Report Number(s): INIS-mf-6528; CONF-8011117-
Language: Hungarian
             (Item 3 from file: 103)
 2/3/260
00778877
          ERA-06-027654; EDB-81-087140
Title: Rapid in situ hydrolysis and retention of decomposition products of
   organophosphorus compounds by reaction ion exchange beds
Author(s): Janauer, G.E.; Costello, M.; Stude, H.; Chan, P.; Zabarnick,
   S.; Hemphill, D.D. (ed.)
Affiliation: Army Armament Research and Development Command, Aberdeen
   Proving Ground, MD
Title: Trace substances in environmental health.
Conference Title: 14. annual conference on trace substances in
   environmental health
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Conference Location: Columbia, MO, USA Conference Date: 2 Jun 1980

Publisher: University of Missouri, Columbia, MO

Publication Date: 1980 p 425-435 Report Number(s): CONF-800643-

Language: English

2/3/261 (Item 1 from file: 315)

266147 CEBA Accession No.: 21-12-016060 DOCUMENT TYPE: Journal

New decontaminants: total, rapid and mild destruction of insecticides and nerve gases by peracids

Orig. Title: Destruction chimique totale, rapide et douce d'insecticides et de toxiques de guerre par les peracides

AUTHOR: Lion, C.; Charvy, C.; Hedayatullah, M.; Bauer, P.;

Sentenac-Roumanou, H.; Despagne, B.; Delmas, G.

CORPORATE SOURCE: Universite de Paris, Direction des Recherches Etudes et Techniques, Centre d'Etudes du BouchVert-le-Petit; , Paris-Armees; , France; France;

JOURNAL: Bulletin des Societes Chimiques Belges, Volume: 99, Issue: 2, Page(s): 127-133

CODEN: BSCBAG ISSN: 0037-964

PUBLICATION DATE: 1990 (900000) LANGUAGE: French

2/3/262 (Item 2 from file: 315)

242012 CEBA Accession No.: 20-00-012915 DOCUMENT TYPE: Journal

Enzymes to degrade pesticides and nerve gases.

JOURNAL: Bioprocess. Technol., Volume: 11, Issue: 10, Page(s): 4

CODEN: QQQQQQ ISSN: 08855625

PUBLICATION DATE: Oct 1989 (891000) LANGUAGE: English

2/3/263 (Item 3 from file: 315)

073831 CEBA Accession No.: 11-04-001544 DOCUMENT TYPE: Miscellaneous

Reductive treatment of hazardous industrial wastes

AUTHOR: sweeny, k h

JOURNAL: AICHE MEETING PROG, 73RD ANNUAL MEETING, 16-20 nov 1980.

LANGUAGE: English

2/3/264 (Item 1 from file: 16)

02306072 DIALOG FILE 16: PTS PROMT

Enzyme offers clue to pesticide resistance

Enzyme produced by soil bacterium can break down toxins in pesticides

New Scientist September 9, 1989 p. 42

ISSN: 0028-6664

2/3/265 (Item 2 from file: 16)

02282731 DIALOG FILE 16: PTS PROMT

Bacteria said to block effects of nerve gas

Bacteria capable of neutralizing nerve gases and similar poisons have been developed

New York Times (National Edition) September 12, 1989 p. 22 ISSN: 0362-4331

2/3/266 (Item 3 from file: 16)

02266442 DIALOG FILE 16: PTS PROMT

Enzymes to beat chemical weapons

Bacterial enzyme that could degrade organophosphorus neurotoxins in chemical weapons is being studied

Chemical Week August 23, 1989 p. 59

ISSN: 0009-272X

2/3/267 (Item 4 from file: 16)

00363292 DIALOG FILE 16: PTS PROMT

Squid nerves contain an enzyme that catalytically detoxifies organophosphorus compounds, including some nerve gases, according to Dr FCG Hoskin at Illinois Institute of Technology.

Chemical & Engineering News October 10, 1977 p. 31,331

2/3/268 (Item 1 from file: 117)

651090 W93-02807

Evaluation of Organophosphorus Insecticide Hydrolysis by Conventional Means and Reactive Ion Exchange

Dowling, K. C.; Lemley, A. T.

Cornell Univ., Ithaca, NY. Graduate Field of Environmental Toxicology.

IN: Pesticide Waste Management: Technology and Regulation. From a symposium sponsored by the Division of Agrochemicals at the Fourth Chemical Congress of North America, New York, New York, 25-30 August 1991. American Chemical Society, Washington, DC. 1992. p 177-194, 6 fig, 3 tab, 15 ref.,

2/3/269 (Item 2 from file: 117)

620782 W90-09463

Organophosphate Acid Anhydrases, Hydrolytic Enzymes for Organophosphate Detoxification

Landis, W. G.; Chester, N. A.; Durst, H. D.; Mueller, A. J.; Dumas, D. P. Aberdeen Research and Development Center, Aberdeen Proving Ground, MD.

IN: Pesticides in Terrestrial and Aquatic Environments. Proceedings of a National Research Conference, May 11-12, 1989. Virginia Water Resources Research Center, Blacksburg, VA. 1989. p 270-283, 3 fig, 2 tab, 30 ref.,

2/3/270 (Item 3 from file: 117)

619625 W90-08306

Chemical Reactions of Organic Compounds on Clay Surfaces

Soma, Y.; Soma, M.

National Inst. for Environmental Studies, Ibaraki (Japan).

Environmental Health Perspectives EVHPAZ, Vol. 83, p 205-214, November 1989. 2 fig, 86 ref.,

2/3/271 (Item 1 from file: 203)

1472372 AGRIS No: 93-075845

Role of glutathione s-transferase in organophosphorus resistance of diamondback moth larvae

Sun, C.N.; Kao, C.H.; Chiang, F.M. (National Chung-Hsing Univ., Taichung (Taiwan). Dept. of Entomology)

3. International Conference on Plant Protection in the Tropics, Genting Highlands, Pahang (Malaysia), 20-23 Mar 1990

Proceedings of the 3rd International Conference on Plant Protection in the Tropics: volume III

Malaysian Plant Protection Society (Malaysia)

Kuala Lumpur (Malaysia): Malaysian Plant Protection Society, 1990, p. 139-145

Language: English Summary Language: English

2/3/272 (Item 2 from file: 203)

0706094 AGRIS No: 84-020585

Persistence of organophosphorus pesticides in aquatic environments. Coordinated programme on isotope-tracer-aided research and monitoring on agricultural residue -biological interactions in aquatic environment; Final report for the period 1 July 1976 - 31 July 1982

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Horvath, L. (Magyar Tudomanyos Akademia, Budapest. Izotopintezete)
   International Atomic Energy Agency, Vienna (Austria)
   , Aug 1982, 8 p.
   Report No : IAEA-R--1793-F
   Language: English
 2/3/273
             (Item 3 from file: 203)
 0362282 AGRIS No: 470937
   Degradation, non-enzymatic degradation and biological effectiveness of
aqueous preparation of some organophosphorus insecticides Dursban,
Cyolane, Gardona
   El-Tantawy, M.A.; Guirguis, M.W.; Hussein, N.M. (Zagazig Univ. (Egypt).
 Faculty of Agriculture)
   The Fourth Conference of Pest Control, Cairo, Egypt,
                                                          30 Sep 1978
   Proceedings of the Fourth Conference of Pest Control
   Academy of Scientific Research and Technology and National Research
 Centre
   Cairo (Egypt): National Research Centre, 1978, p. 546-554
   Language: English
                         Summary Language: English
             (Item 1 from file: 302)
 2/3/274
313201003
           Text
   Chapter CH=31320
   Type TY=313201
         UN=313201001
   Unit
Chapter Title: Insect Control Technology
     Text continued from 313201002
Section Heading: INSECTICIDE FORMULATION (continued)
 2/3/275
             (Item 2 from file: 302)
313201019
           Text
   Chapter CH=31320
   Type
          TY=313201
  Unit
          UN=313201002
Chapter Title: Insect Control Technology
     Text starts in 313201004
     Text continued from 313201018
     Text continues in 313201020
Section Heading: Insecticides (continued)
 2/3/276
             (Item 3 from file: 302)
313201027
           Text
  Chapter CH=31320
  Type TY=313201
  Unit
         UN=313201002
Chapter Title: Insect Control Technology
     Text starts in 313201004
     Text continued from 313201026
     Text continues in 313201028
Section Heading: Insecticides (continued)
2/3/277
             (Item 4 from file: 302)
321171001
           Text
  Chapter CH=32117
          TY=321171
  Type
  Unit UN=321171001
```

Chapter Title: Soil Chemistry of Pesticides Text continues in 321171002 Section Heading: Insecticides (Item 1 from file: 51) 2/3/278 83-06-a0340 SUBFILE: FSTA 00238882 Recent developments in food analysis. Baltes, W.; Czedik-Eysenberg, P. B.; Pfannhauser, W. (Editors) European Federation of Chemical Societies (1st Food Analysis Symposium); Huber, J. F. K.; Rougerau, A.; Guiller, A.; Gore, J.; Person, O.; Toth, L.; Wittkowski, R.; Engst, R.; Boniforti, L.; Lorusso, S.; Abrahamsson, S.; Stan, H. J.; Kellner, G.; Fraisse, D.; Maquin, F.; Tabet, J. C.; Chaveron, H.; Luethy, J.; Daussant, J.; Righetti, P. G.; Bosisio, A. B.; Mercier, C.; Mikes, O. European Federation of Chemical Societies , xii + 500pp.PUBLISHER: Weinheim, Federal Republic of Germany; Verlag Chemie. Price DM98.00 LANGUAGE: English 2/3/279 (Item 2 from file: 51) 74-01-m0051 SUBFILE: FSTA 00074923 (Metabolic exchange reactions between cereals and insecticides during storage of cereals.) Metabolitische Austauschreaktionen von Enzymen und Insektiziden waehrend der Getreidelagerung. Meuser, F. Tech. Univ., Seestrasse 11, Postfach 650480, D-1, Berlin 65, Federal Republic of Germany Annales de Technologie Agricole 1972 , 21 (4) 515-533 LANGUAGE: German SUMMARY LANGUAGE: French; English 2/3/280 (Item 3 from file: 51) 00010048 69-11-c0483 SUBFILE: FSTA Degradation and anticarboxylesterase activity of disulphoton and phorate after 60Co gamma irradiation. Grant, D. L.; Sherwood, C. R.; McCully, K. A. Res. Lab., Food and Drug Directorate, Dept. of Nat. Health and Welfare, Ottawa 3, Ontario, Canada Journal of the Association of Official Analytical Chemists 1969 , 52 (4) 805-11 LANGUAGE: English 2/3/281 (Item 1 from file: 60) 09098214 PROJ NO: TEX06837 AGENCY: CSRS TEX PROJ TYPE: HATCH START: 24 JUN 91 TERM: 23 JUN 96 FY: 1992 INVEST: WILD J R

## ENZYMATIC DECONTAMINATION OF ORGANOPHOSPHORUS CHEMICAL AGENTS

BIOCHEMISTRY & BIOPHYSICS

COLLEGE STATION TEXAS 77843

TEXAS A&M UNIV

OBJECTIVES: Develop the potential of the broad spectrum organophosphorus hydrolase (OPH) encoded by the opd gene of Pseudomonas diminuta and Flavobacterium ATCC23855. 1) Produce native and mutant enzymes for x-ray crystallographic analysis. 2) Enhance enzyme production using genetic expression systems. 3) Evaluate the various molecular forms of OPH. 4)

Modify the hydrophobic leader sequence. 5) Modify OPH to enhance stability, specificity and metal binding. 6) Immobilize phosphotriesterase to a solid support for use in a bioreactor.

PRIMARY HEADINGS: R214 Protection from Pollution; A5000 Biological Efficiency of Plants, Animals; C6500 Invertebrates; F0313 Biology-Molecular-Other

2/3/282 (Item 2 from file: 60)

09093632

PROJ NO: NYC-329423 AGENCY: CSRS NY.C

PROJ TYPE: HATCH REGIONAL PROJ NO: W 00045 START: 01 OCT 89 TERM: 30 SEP 94 FY: 1992

INVEST: LEMLEY A T TEXTILES AND APPAREL CORNELL UNIVERSITY ITHACA NEW YORK 14853

PERSISTENCE OF PESTICIDE RESIDUES: TRANSPORT, FATE AND EFFECTS

OBJECTIVES: Determine the mechanisms of post-application transport and their effects on the persistence of pesticide residues. Determine the chemical and biochemical processes that affect the persistence of pesticide residues and their transformation products in plants, animals, and other environmental compartments.

PRIMARY HEADINGS: R901 Alleviation of Soil, Water, Air Pollution; A4830 Protection Against Pollutants; C0200 Water; F0114 Biochemistry and Biophysics-Other

2/3/283 (Item 3 from file: 60)

09078655

PROJ NO: CA-R\*-ENT-3744-AH AGENCY: CSRS CALB

PROJ TYPE: ANIMAL HEALTH

START: 06 OCT 88 TERM: 30 SEP 93 FY: 1992

INVEST: GILL S S; FUKUTO T R

**ENTOMOLOGY** 

UNIVERSITY OF CALIFORNIA RIVERSIDE CALIFORNIA 92521

EFFECT OF AGRICULTURAL CHEMICALS AND NATURAL TOXINS CONTAMINATING THE FOOD OF DOMESTIC ANIMALS

OBJECTIVES: Focus will be placed on the examination and mode of action of toxic impurities present in technical insecticides and the determination of the distribution, characterization and analyses of epoxide metabolizing enzymes. Specifically: Elucidate mechanism of delayed toxicity with respect to the toxicology of organophosphorus insecticide impurities. Identify primary bio-chemical lesion responsible for delayed toxicity. Purify and characterize the expoxide hydrolase activity in the mitochondrial/peroxisomal fraction of mouse liver.

PRIMARY HEADINGS: R213 Protect Animals from Toxins, Poisons; A4880 Protection Against Allergins, Toxins; C6800 Animals (Vertebrates); F1526 Chemistry-Organic; F0110 Biochemistry and Biophysics-Animal

2/3/284 (Item 1 from file: 340)

2314527 9230178

C/ ENZYME DETERGENT FORMULATION AND METHODS OF DETOXIFYING TOXIC ORGANOPHOSPHOROUS ACID COMPOUNDS; LAUNDRY DETERGENT AND CELL-FREE

EXTRACT OF ESCHERICHIA COLI; HYDROLYSIS

Inventors: Akkara Joseph A (US); Kaplan Arthur M (US); Kaplan David L (US)

Assignee: U S of America Army Secretary of Assignee Code: 86528

•	Patent	Issue	Applic	Applic
	Number	Date	Number	Date
Patent: Priority Applic:	US 5169554	921208	US 417614 US 417614	891004 891004

2/3/285 (Item 2 from file: 340)

2041719 9009828

C/ COMPOSITIONS OF MATTER COMPRISING DIALKYL-(N,N-DIALKYLCARBAMOYLMETHYL)
PHOSPHINE OXIDES

Inventors: Kem Kenneth M (US)

Assignee: Occidental Chemical Co Assignee Code: 03133

j	Patent Number	Issue Date	Applic Number	Applic Date
Patent:	US 4922012	900501	US 570181	840112
Contin-part of:	US 4396556		US 239731	810302
	ABANDONED		US 295300	870824
Priority Applic:			US 570181	840112
			US 239731	810302
			US 295300	870824

2/3/286 (Item 3 from file: 340)

1465892 8310299

C/ PROCESS OF PREPARING ORGANOPHOSPHORUS COMPOUNDS BY PHASE TRANSFER CATALYSIS; REACTING A 2-HALOACETAMIDE WITH A PHOSPHONATE, PHOSPHINATE, OR PHOSPHINE OXIDE IN A TWO-PHASE LIQUID SYSTEM

Inventors: KEM KENNETH M (US)

Assignee: OCCIDENTAL RESEARCH CORP Assignee Code: 01300

	Patent Number	Issue Date	Applic Number	Applic Date
Patent:	US 4396556	830802	US 239731	810302
	(Cited in 003	later patents)		
Priority Applic:		_	US 239731	810302

2/3/287 (Item 1 from file: 351) 009305483 WPI Acc No: 92-432892/52

XRAM Acc No: C92-192142

Enzyme detergent compsn. for detoxifying organophosphorus acid cpds. - comprises laundry detergent and E. coli extract contg. organophosphorus acid anhydrolase

Patent Assignee: (USSA ) US SEC OF ARMY

Author (Inventor): AKKARA J A; KAPLAN A M; KAPLAN D L

Patent Family:

CC Number Kind Date Week

US 5169554 A 921208 9252 (Basic)

Priority Data (CC No Date): US 417614 (891004)

2/3/288 (Item 2 from file: 351)

008212400 WPI Acc No: 90-099401/13

XRAM Acc No: C90-043688

Prodn. of parathion hydrolase - using transformed microorganism contg.

recombinant plasmid coding for processed parathion hydrolase

Patent Assignee: (AMGE-) AMGEN INC

Author (Inventor): SERDAR C M; MURDOCK D

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Patent Family:
    CC Number
                 Kind
                                    Week
                          Date
    WO 9002177
                         900308
                                    9013
                                            (Basic)
                   Α
    EP 394393
                         901031
                                    9044
                   Α
    JP 3501086
                   W
                          910314
                                     9117
Priority Data (CC No Date): US 312503 (890217); US 237255 (880826)
Applications (CC, No, Date): WO 89US3721 (890825); EP 89901534 (890825); JP
    89509834 (890825)
 2/3/289
             (Item 3 from file: 351)
007849283 WPI Acc No: 89-114395/15
XRAM Acc No: C89-050661
XRPX Acc No: N89-087354
    Article for inactivating toxic materials, e.g. organophosphorus cpds. -
    comprises solid carrier bearing target ligand-binding receptor and
    ligand-degrading receptor, pref. enzyme
Patent Assignee: (LITT ) LITTLE A D INC
Author (Inventor): TAYLOR R F Patent Family:
    CC Number
                 Kind
                                    Week
    WO 8902920
                         890406
                                    8915
                   Α
                                            (Basic)
    EP 381701
                   Α
                         900816
                                    9033
Priority Data (CC No Date): US 105312 (871005)
Applications (CC, No, Date): WO 88U03422 (881004); EP 88909691 (8810U4)
 2/3/290
             (Item 1 from file: 636)
                 DIALOG FILE 636: PTS NEWSLETTER DATABASE
01745242
IB PATENT UPDATE: CLEANING PREPARATIONS
                              January 00, 1993 V. 15
Industrial Bioprocessing
                                                          NO. 1
WORD COUNT:
              124
PUBLISHER: Technical Insights, Inc.
 2/3/291
             (Item 1 from file: 19)
908728
Journal: Chem Wkly 37 (23) p. 109 Date: 920211
                CODEN: CHWEBQ
ISSN: 0045-6500
Copyright 1993 by the American Chemical Society
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             (Item 1 from file: 109)
872191
        NSA-18-005208
  BULLETIN OF THE CHEMICAL SOCIETY
  Mladenovic, M. ed.
  Publication Date: nd
                          125 p.
  Primary Report No.: OTS-62-11757
  Note: Translation of Glasnik Hemiskog Drustva, Beograd, 27: No. 2-3,
(1962)
 2/3/293
             (Item 1 from file: 110)
         56.9 SO3
                    ID NO: 70-9033769
133033
  Soil
         degradation
                       of
                            malathion,
                                        a phosphorodithioate insecticide.
[Hydrolysis, adsorption, catalysis, organophosphorus compounds]
  Konrad, J G; Chesters, G; Armstrong, D E
  Soil Sci Soc Amer Proc 33 (2): 259-262. Mar/Apr 1969
             (Item 1 from file: 185)
 2/3/294
          Vol 121
                    Sec 13F
0541583
                              Cit 00357
            AND CHARACTERIZATION OF AN ESTERASE OF TRIATOMA INFESTANS WITH
  ISOLATION
A CRITICAL ROLE IN THE DEGRADATION OF ORGANOPHOSPHORUS ESTERS.
  DE MALKENSON, N.C.; WOOD, E.J.; ZERBA, E.N.
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INSECT BIOCHEM. 14(4) 1984: 481-486, ILLUSTR.
             (Item 1 from file: 245)
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016594
        BK001154
 Organophosphorus Pestcides. In -- Analysis of Pesticides in Water; Alfred
S.Y. Chau, B.K. Afghan, and James W. Robinson, eds.
 Chau, Alfred S.Y.; Ripley, Brian D.; Kawahara, Fred
 Volume II, p 61-154,
                        1982
 ISBN: 0-8493-5211-8 (Vol. 2) LC: 81-12291
 Availability: CRC Press, Inc.
 331 references, tables, figures
 Language: English
             (Item 1 from file: 295)
 2/3/296
 00163749
            WTI No.: 86-0017032
 Translated Title: Immobilized enzymes and their biomedical applications.
III. Detoxifying action of immobilized cholinesterase on organophosphorus
pesticides (DDVP)
 Author: LI N; LU G; SUN Z
 Translation Year: 1985, 18p.
 Translating Organization (Availability): NTC -- National Translations
Center.
         The Library of Congress, The National Translations Center,
Washington DC 20540, U.S.A. (NTC 85-13471)
 Translation Language: English
Translated from:
Source Journal:
                Tianjin Yiyao, v. 9
 Original Publication Year: 1981, p. 515-520
 Original Language: Chinese
 2/3/297
             (Item 1 from file: 305)
052448
         AA Accession No.: 46-06-C-00015
                                              DOC. TYPE: Journal
Preliminary study of a potential post-column photo-degradation reaction
    scheme for the detection of organophosphorus compounds.
AUTHOR: Priebe, S. R.; Howell, J. A.
CORPORATE SOURCE: Dept. Chem., Western Michigan Univ., Kalamazoo, MI 49008,
   USA
JOURNAL: Anal. Lett., Volume: 16, Issue: A15, Page(s): 1219-1233
CODEN: ANALBP ISSN: 0003-2719
PUBLICATION DATE: Oct 1983 (831000) LANGUAGE: English
2/3/298
             (Item 1 from file: 322)
207101016
           Text
  Chapter CH=20710
  Type
          TY=207101
  Unit
          UN=207101002
Chapter Title: Flammability
     Text starts in 207101007
     Text continued from 207101015
     Text continues in 207101017
Section Heading: Materials (continued)
2/3/299
             (Item 1 from file: 345)
11297060
Basic Patent (No, Kind, Date): US 5169554 A 921208 < No. of Patents: 001>
            DETERGENT
                        FORMULATION
                                       AND METHODS OF DETOXIFYING TOXIC
     ORGANOPHOSPHOROUS ACID COMPOUNDS (English)
Patent Assignee: US ARMY (US)
Author (Inventor): AKKARA JOSEPH A (US); KAPLAN DAVID L (US); KAPLAN ARTHUR
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   M (US)
National Class: *252174120; 252156000; 252173000; 252174230; 252174240;
    252DIG012; 252DIG014; 435264000
IPC: *C11D-017/00; C11D-007/06; C11D-007/12
CA Abstract No: 118(10)083339W
Derwent WPI Acc No: C 92-432892
Language of Document: English
Patent Family:
                Kind Date Applic No
   Patent No
                                            Kind Date
                               US 417614
   US 5169554
                Α
                     921208
                                           A
                                                 891004
                                                         (BASIC)
Priority Data (No, Kind, Date):
   US 417614 A 891004
            (Item 1 from file: 669)
 2/3/300
00481262
Draft Report: Principles of Neurotoxicity Risk Assessment
                            Vol. 58, No. 148
                                Part II
                              58 FR 41556
                         Wednesday, August 04, 1993
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                   0.035 Hrs File5
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\$24.96

\$1

Estimated cost File5